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Gas Househeating Survey: 1984

37th Annual Survey
Gas Utility Industry
United States

Househeating Customers, 1984
Unit Additions—Conversions and New Housing, 1984-1985
Gas Utility Customer New Hook-Up Requirements, 1984
Competitive Fuel Prices, 1984

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Introduction

This report presents the results of the 37th Annual Gas Housheating Survey conducted by the American Gas Association. Data collected for 1984, as well as projected data for 1985, provide a comprehensive portrait of the residential gas market by state and region, including customers, fuel prices, anticipated inventory additions from new homes and conversions, and existing requirements on new customer hook-ups.

A total of 152 gas utility companies, serving 87% of the nation's residential gas customers, responded to this year's survey. The information provided by these utilities was expanded to obtain the state and national totals shown in Tables 3 and 5. Individual company data are listed by region and state in Appendices 1 and 2. Please note that some tabular data may not add to totals due to rounding.

The American Gas Association wishes to thank those companies who participated in the survey for making this publication possible.

I. Executive Summary

- Conversions of existing units from alternative fuels to gas househeating were 137,000 in 1984, a 4.3% increase over last year's level. Based on A.G.A. survey data, 106,034 or 77% of all heating conversions, were from fuel oil to gas. The remaining conversions to natural gas were 9,308 converting from LPG, 18,570 from electricity--more than double last year's level--and 2,985 from "other fuels" (i.e., coal, wood, etc.).

- New gas househeating unit additions numbered 576,400, a 29% increase. The addition of new gas househeating units from conversions of existing units and new housing combined totalled 713,400 in 1984, a 23% increase from last year.

- Utilities expect to add approximately 123,000 conversions in 1985, or about the same as in 1984. The projections for gas househeating additions from newly constructed units are about the same as 1984 at 571,900 units. This means that new housing would account for 82% of total anticipated househeating additions, while total househeating additions would increase by 10%.

- In single family dwellings, gas consumption for househeating was 73.8 Mcf, while baseload consumption was 30.8 Mcf. By comparison the average multifamily dwelling unit consumed 45.9 and 23.5 Mcf for househeating and baseload use, respectively.

- Conservation, reported as the total percentage decline in consumption per customer corrected for weather variations, averaged 23.9% below the 1973 consumption level. Regionally, the conservation level ranged from a high of 30.5% in the Mountain division to a low of 18.1% in the East South Central division.

- Average year-end prices declined up to $.39/MMBtu in four of nine census divisions during 1984 vs. 1983. The remaining regions showed only slight price increases ranging from $.15 to $.42/MMBtu (nominal $'s). Similarly, average annual heating

bills declined by as much as $115.00 in four divisions due to both the price moderation and lower degree days compared to last year, while the remaining five divisions' bills rose by at most $39.00 due primarily to increased per unit consumption.

- There were 45.9 million residential gas customers by year-end 1984, a net increase of 1.1% over 1983. Househeating customer saturation decreased slightly by 0.4% to 88.3%.

- Gas' market share of new single family home completions increased to 45% in 1984 from 43% in 1983. Gas heated single family home completions outnumbered electric heated single family home completions in three of the four census regions. Gas heated single family home completions also exceeded electric heated completions in metropolitan areas (SMSA's) for the second year in a row.

- The U.S. housing construction market continued to rebound in 1984 after a dramatic recovery in 1983. New housing completions increased by 19% to 1.7 million in 1984. Overall, gas' share of single and multifamily unit completions remained at 38% in 1984, while electricity's share regained its 1982 level of 57%.

II. United States Housing Market In 1984

New Housing - Starts

The number of new private housing starts (seasonally adjusted) in 1984 rose slightly to 1.75 million units, a 3% increase over 1983 (see Figure 1). This level is slightly higher than the 1979 levels that existed just prior to the dramatic decline in housing starts in the 1980's that bottomed out at 1.06 million units in 1982. Construction of single family homes increased 2% to 1.08 million, while the construction of multifamily units stayed about the same at around 635,000.

Recent housing-start data indicate that the housing recovery in 1983 that followed the worst two years for housing in the postwar period, is stabilizing. Privately owned housing starts in June 1985 were at a seasonally adjusted annual rate of 1.71 million starts.[1] This is 7% below the June 1984 rate. Wharton Econometric Forecasting Associates (WEFA) has predicted that 1985 private housing starts would average 1.85 million units. WEFA expects the housing market to decline over the following two years, with starts nearing 1.81 million in 1986 and 1.77 million in 1987.

New Housing - Completions

The housing industry recovery that began in 1983 is further evidenced by the increase in the number of unit completions (which lag housing starts by about 6 months) to 1.7 million in 1984, an increase of 19% compared to 1983 (see Table 1). New gas completions reflected an increase from 533,000 new units in 1983 to 626,000 new units in 1984, or

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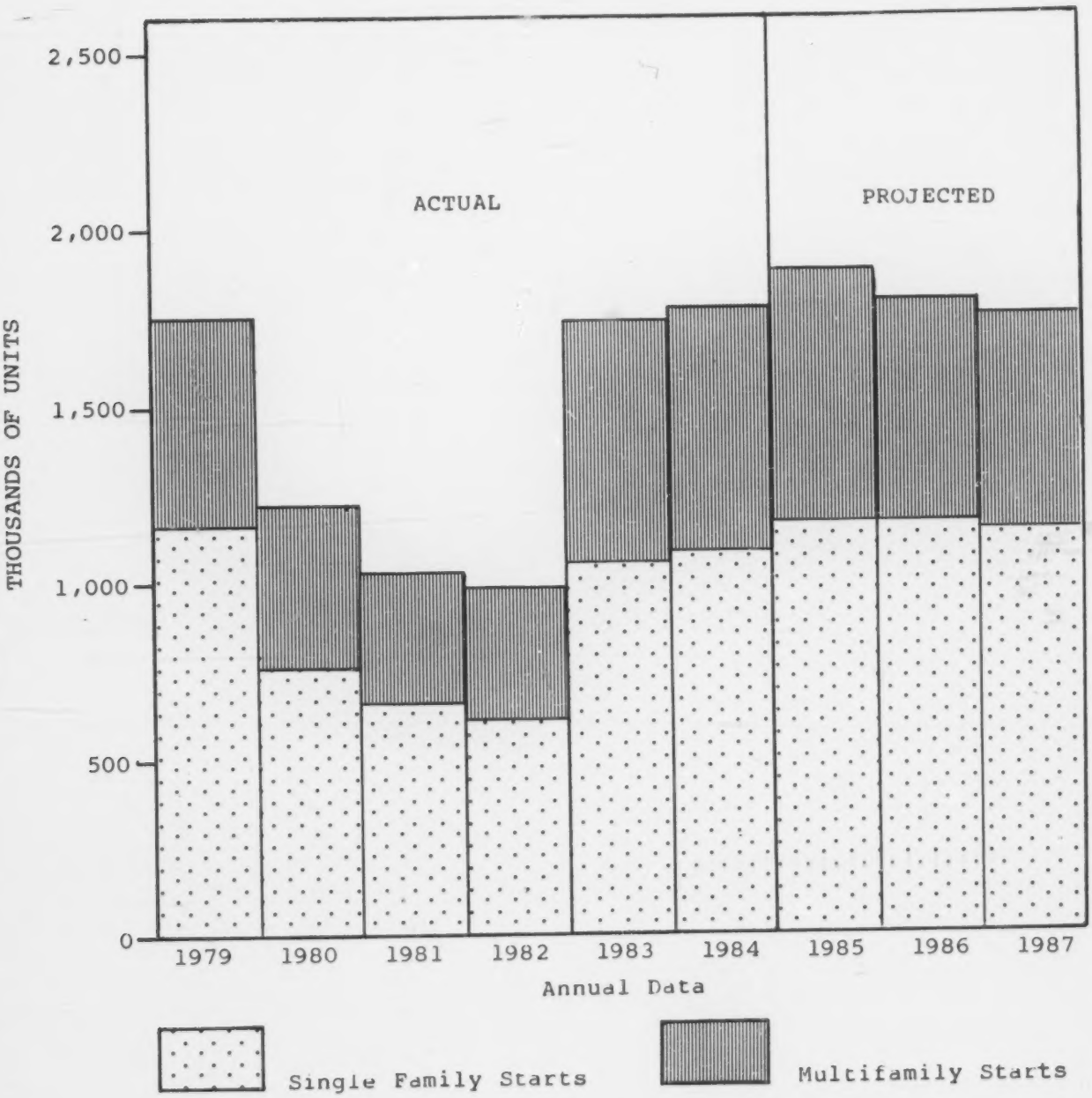
[1] Source: U.S. Department of Commerce, Bureau of the Census, Construction Reports--Housing Starts, Series C-20, June 1985.

Figure 1

PRIVATE HOUSING STARTS--ACTUAL & PROJECTED
1979-1987



Source: Actual--U.S. Bureau of the Census, Construction Reports--Housing Starts, Series C20, May 1985.

Projected--Wharton Econometric Forecasting Associates, Long Term Model--Baseline Forecast, Volume 3, Number 3, June 1985.

17% higher, according to the Census publication, Characteristics of New Housing: 1984. It is likely that most of this increase was from natural gas, since net LP gas units have gone down between 1981 and 1983 according to the Annual Housing Survey, another Census publication.

Approximately 1,025,000 of housing completions (62%) in 1984 were single family homes. Single family housing completions using gas heat actually exceeded the number of electrically heated completions within Standard Metropolitan Statistical Areas (SMSA's). There were 386,000 gas heated completions compared to 350,000 electric heated completions within SMSA's. However, outside of the SMSA's, in outlying suburban and rural areas, electric heated completions outnumbered gas with 142,000 completions compared to 74,000 for gas.

On the national level, the market share for natural gas heating remained at 38% of all 1984 completions. The electric share of all new completions in 1984 was 57%, up from 56%. In the single family home category, the gas market share was 45%--up from 43% in 1983. The electric heating market share was 48% of single family homes, down from 49%. In contrast, the electric heating share for new multifamily units increased to 72% from 70% in 1983. The gas share dropped to 26% of multifamily units.

Gas heated completions in 1984 outnumbered electric heated completions in three of four regions for all units among single family homes. However, new electric heated completions among single family homes in the South outnumbered gas heated completions by 155,000, or nearly double. In the multifamily sector gas completions outnumbered electric in the midwest region. Again, the South showed a wide margin (266,000) in electric heated completions compared to gas.

Table 1

1984 PRIVATE HOUSING COMPLETIONS-BY HEATING FUEL
(thousands of units)

Single Family	U.S. Share	U.S. Units	Northeast	Midwest	South	West
Gas[a]	45%	460	53	110	170	127
Electricity	48	492	46	30	325	91
Oil	2	24	21	1	1	1
Other	5	49	9	14	12	14
Subtotal	100%	1,025	129	155	508	233
Multifamily						
Gas[a]	26%	166	16	34	46	70
Electricity	72	452	18	32	312	90
Oil	1	4	1	1	1	1
Other	1	5	1	(I)	(I)	4
Subtotal	100%	627	36	67	359	165
Total		1,652	165	222	867	398

[a]Includes liquefied petroleum gas.
(I)Insufficient sample size to allow publication.

Source: U.S. Bureau of the Census, Characteristics of New Housing: 1984, Construction Reports C25-84-13, June 1985.

Existing Housing

Since the Bureau of the Census has switched to a biennial basis for the Annual Housing Survey and did not collect data for 1982 or 1984, A.G.A. estimated 85.9 million occupied housing units in the United States in 1984. Of this total, 47.2 million, or 55%, were units which used natural gas for heating (see Table 2). A regional breakdown of the 47.2 million gas heated units found 17% in the Northeast, 33% in the Midwest (sometimes called North Central), 26% in the South, and 24% in the West.

As a percentage of total homes, electrically heated units stayed at 19% in 1984 with a total of 16.6 million units. This is an average annual increase of 3.2% since 1980. The number of units heated with fuel oil continued to decline, falling to 12.9 million in 1984, or 15% of the total. The number of homes heated by other fuels (wood, coal, solar, etc.) retained its 11% market share, totaling about 9.2 million units in 1984. The addition of 2.1 million units in this category between 1981 and 1983 was entirely due to a doubling in wood heated homes in each region during this time period.

In all regions, except the Northeast, gas had the largest market share of heated homes. Gas heated housing is most prevalent in the Midwest states, maintaining a 73% share of the market. In the Northeast region, where oil heated homes have the largest market share, gas maintained its increased market share at 43% in 1984, up from 37% in 1978 and 41% in 1981.

III. Residential Gas Customers in 1984

Total Residential Customers

With net year-end customer additions of 504,400, the total number of gas customers[2] reached nearly 45.9 million in 1984, a 1.1% increase over 1983 (see Table 3). The West, with 229,100 new customers, accounted for 45% of all new residential customer additions. The South region accounted for virtually all the rest of the new customer additions with 136,400.

Househeating Customers

About 40.5 million, or 88.3% of all 1984 residential gas customers were househeating customers. The gas househeating/total residential gas customer ratio, i.e., market saturation, decreased by less than one half percentage point from 1983. Househeating customer net additions totalled 262,100 in 1984, a 45% decrease. This included existing gas baseload customers who converted their heating system to gas, as well as customers added through new construction and conversions from alternative fuels.

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2 At most utilities a residential customer is defined as an individual or organization purchasing gas for domestic purposes (heating, cooking) at one location under one rate classification, i.e., a meter represents a single customer.

Table 2

U.S. RESIDENTIAL HOUSING INVENTORY BY HEATING FUEL
1980-1984
(Thousands of Occupied Units[a])

	1980	1981	1982[b]	1983	1984[b]	1984 Market Share
United States	80,073	83,175	83,800	84,638	85,900	
Gas	44,398	46,084	46,600	46,699	47,200	55%
Electric	14,207	15,486	15,900	15,683	16,600	19
Oil[c]	14,867	14,494	14,200	13,031	12,900	15
Other[d]	6,601	7,111	7,100	9,224	9,200	11
Northeast	17,264	17,852	17,900	18,221	18,300	
Gas	6,928	7,335	7,500	7,741	7,800	43%
Electric	1,169	1,281	1,300	1,319	1,400	7
Oil[c]	8,685	8,642	8,500	8,226	8,200	45
Other[d]	482	594	600	934	900	5
Midwest	20,842	21,564	21,600	21,618	21,700	
Gas	14,688	15,308	15,400	15,656	15,800	73%
Electric	2,036	2,210	2,200	2,172	2,200	10
Oil[c]	2,502	2,328	2,300	1,774	1,700	8
Other	1,616	1,718	1,700	2,015	2,000	9
South	26,286	27,430	27,800	27,931	28,700	
Gas	2,290	12,725	12,800	12,346	12,500	43%
Electric	7,615	8,225	8,600	8,557	9,200	32
Oil[c]	3,009	2,905	2,800	2,559	2,500	9
Other[d]	3,372	3,575	3,600	4,470	4,500	16
West	15,681	16,329	16,500	16,868	17,200	
Gas	10,492	10,716	10,900	10,956	11,100	65%
Electric	3,388	3,770	3,800	3,635	3,800	22
Oil[c]	671	619	600	472	500	3
Other[d]	1,130	1,224	1,200	1,805	1,800	10

[a]Units include both single and multifamily.

[b]The Annual Housing Survey was not conducted in 1982 and 1984 as a result of switching to a biennial survey. A.G.A. estimates for these years derived by adding number of dwellings completed by fuel type, as reported by U.S. Bureau of Census, Construction Reports - Series C-25, June 1983 and 1985, to 1981 and 1983 actual data, considering also the net gains and losses as a result of fuel switching and demolitions.

[c]Oil includes kerosene.

[d]Other includes LP gas, coal, wood, other, and none.

Source: U.S. Bureau of the Census, Annual Housing Survey: General Housing Characteristics, 1980-1981 and 1983.

Table 3

RESIDENTIAL AND HOUSEHEATING CUSTOMERS OF GAS UTILITIES,
AND 1984 HOUSEHEATING UNIT ADDITIONS,
BY STATE, AS OF DECEMBER 31, 1984

(Thousands)

Region, Division and State	Residential Customers			1984 Househeating Unit Additions From New Housing and Conversions				
	Total	House Heating	Percent Heating	Total (100%)	New Housing Number	New Housing (%)	Conversions Number	Conversions (%)
United States	45,880.3	40,490.4	88.3	713.4	576.4	81	137.0	19
NORTHEAST	9,425.5	6,077.6	64.5	123.5	62.6	51	60.9	49
New England	1,674.7	1,123.3	67.1	28.6	11.4	40	17.2	60
Connecticut	393.1	259.6	66.0	10.6	5.5	52	5.1	48
Maine	12.4	9.4	76.1	0.2	0.1	50	0.1	50
Massachusetts	1,037.2	682.3	65.8	14.9	4.1	28	10.8	72
New Hampshire	49.3	39.5	80.1	1.7	1.4	82	0.3	18
Rhode Island	167.1	119.1	71.3	0.4	0.1	25	0.3	75
Vermont	15.6	13.4	85.9	0.8	0.2	25	0.6	75
Middle Atlantic	7,750.8	4,954.3	63.9	94.9	51.2	54	43.7	46
New Jersey	1,759.3	1,126.2	64.0	49.8	28.3	57	21.5	43
New York	3,761.3	1,930.9	51.3	25.8	12.5	48	13.3	52
Pennsylvania	2,230.2	1,897.2	85.1	19.3	10.4	54	8.9	46
MIDWEST	14,197.3	13,420.2	94.5	159.3	122.8	77	36.5	23
East North Central	10,256.5	9,666.2	94.2	103.7	74.2	72	29.5	28
Illinois	3,091.5	2,753.4	89.1	31.2	25.1	80	6.1	20
Indiana	1,207.5	1,164.1	96.4	10.3	5.1	50	5.2	50
Michigan	2,351.5	2,284.3	97.1	27.8	23.2	83	4.6	17
Ohio	2,596.6	2,548.5	98.1	18.9	15.6	83	3.3	17
Wisconsin	1,009.4	915.9	90.7	15.5	5.2	34	10.3	66
West North Central	3,940.8	3,754.0	95.3	55.6	48.6	87	7.0	13
Iowa	693.9	667.2	96.1	5.5	3.0	55	2.5	45
Kansas	701.2	652.8	93.1	6.8	6.6	97	0.2	3
Minnesota	819.6	778.1	94.9	17.8	14.5	81	3.3	19
Missouri	1,149.2	1,093.7	95.2	8.9	8.5	96	0.4	4
Nebraska	395.3	387.4	98.0	3.4	3.3	97	0.1	3
North Dakota	83.5	79.0	94.6	10.3	9.9	96	0.4	4
South Dakota	98.1	95.8	97.7	2.9	2.8	97	0.1	3
SOUTH	11,433.2	10,817.6	94.6	159.9	134.1	84	25.8	16
South Atlantic	3,994.4	3,625.0	90.8	73.7	52.9	72	20.8	28
Delaware	79.1	54.1	68.4	b	b	b	b	b
District of Columbia	131.8	98.0	74.3	1.3	0.1	92	1.2	8
Florida	418.6	412.0	98.4	3.4	1.2	35	2.2	65
Georgia[a]	1,069.5	1,034.6	96.7	31.6	31.6	100	b	0
Maryland	739.6	587.8	79.5	11.2	5.4	48	5.8	52
North Carolina	396.4	379.4	95.7	14.6	7.5	51	7.1	49
South Carolina	287.7	258.4	89.8	b	b	b	b	b
Virginia	515.3	449.9	87.3	11.6	7.1	61	4.5	39
West Virginia	356.4	350.8	98.4	b	b	b	b	b
East South Central	2,098.1	2,052.3	97.8	22.4	19.6	87	2.8	13
Alabama	662.4	647.8	97.8	7.5	6.8	91	0.7	9
Kentucky	586.7	571.4	97.4	3.9	3.6	92	0.3	8
Mississippi	372.5	368.4	98.9	3.5	2.9	83	0.6	17
Tennessee	476.5	464.7	97.5	7.5	6.3	83	1.2	17
West South Central	5,340.7	5,140.3	96.2	63.8	61.6	97	2.2	3
Arkansas	470.9	469.5	99.7	2.5	2.5	100	b	0
Louisiana	930.8	923.0	99.2	b	b	b	b	b
Oklahoma	820.8	812.9	99.0	17.6	17.5	99	0.1	1
Texas	3,118.2	2,934.9	94.1	43.7	41.6	95	2.1	5
WEST	10,824.3	10,175.0	94.0	270.7	256.9	95	13.8	5
Mountain	2,770.9	2,751.0	99.3	66.0	63.6	96	2.4	4
Arizona	556.8	556.3	99.9	3.0	3.0	100	b	0
Colorado	900.6	885.3	98.3	32.1	32.0	100	0.1	0
Idaho	103.2	101.9	98.7	3.1	1.4	45	1.7	55
Montana	169.3	168.7	99.7	1.4	1.4	100	b	0
Nevada[a]	182.7	180.9	99.1	6.9	6.7	97	0.2	3
New Mexico	328.2	328.2	100.0	6.4	6.3	98	0.1	2
Utah	388.9	388.9	100.0	12.1	11.8	98	0.3	2
Wyoming	141.2	140.8	99.7	1.0	1.0	100	b	0
Pacific	8,053.4	7,424.0	92.2	204.7	193.3	94	11.4	6
Alaska	60.2	60.2	100.0	b	b	b	b	b
California	7,335.1	6,758.6	92.1	184.2	184.2	100	b	0
Hawaii	28.9	0.0	0.0	0.0	0.0	0	0.0	0
Oregon	274.5	258.1	94.0	10.4	3.4	33	7.0	67
Washington	354.7	347.1	97.9	10.1	5.7	57	4.4	43

[a]Data not strictly comparable to 1983 due to a change in reporting.

[b]Insufficient data.

Gas Househeating Unit Additions

The gas industry added 713,400 househeating units in 1984 (see Table 3), a 23% increase from 1983. Of total additions, 576,400 were from new housing[3], an increase in new units of 29% from 1983. It also represents an increase in the share of househeating additions from new housing to 81% from 77% in 1983. The West and South showed the highest ratio of additions from new housing versus conversions, 95% and 84%, whereas, the Northeast showed only 51% from new housing.

In 1984, 137,000 housing units were converted from an alternative fuel to natural gas (see Table 4), an increase over last year's level of conversions of 4.3%. The actual number of 1984 conversions exceeded the forecast of 124,700 made by responding companies in 1983. The low but consistent level of conversions is believed to be a result of stable prices for heating oil (the main source of conversions) and uncertainty over the effects of gas pricing legislation.

The respondents were asked to provide a breakdown of the converted units by fuel type. The utilities providing data in this category represented 78% of total 1984 conversions. Based on these data, 106,834 units, or 77%, were conversions from fuel oil to gas. The share of fuel oil conversions dropped from 83% in 1983. Propane and electricity accounted for 7% and 14% each with 9,308 and 18,570 units, respectively, while other (coal, wood, etc.) accounted for 2,985 (2%).

Approximately 81%, or 111,190 conversions, were in four of the nine census divisions of the country -- the Middle Atlantic, East North Central, South Atlantic and New England divisions. These same four divisions accounted for 91% of all conversions from fuel oil. While total fuel oil conversions declined by 3.5% compared to last year, the South Atlantic division showed a 35% increase. On the other nand, conversions from electricity showed the largest increase compared to last year, more than doubling. Regionally, conversions from electricity comprised the majority of conversions in the East North Central and Pacific divisions.

As part of the survey, respondents were asked to project additions to the househeating inventory from both new construction and conversions for 1985 (see Table 5). The results indicate that utilities expect to add approximately 123,000 conversions, or about the same as in 1984. The projections for gas househeating additions from newly constructed units are about the same as 1984 at 571,900 units. This means that new housing would account for 82% of total anticipated househeating additions, while total househeating additions would increase by 10%.

New Hook-up Requirements

The status of new hook-up requirements continues to remain about the same. In all, 18 utilities reported some kind of restriction or

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3 Because of inconsistencies in the definition of a completed housing unit (used by the Bureau of the Census) and an on-line gas customer (used by a gas utility), the number of gas heated housing units added from new construction reported in the survey does not match the Census figures shown in Table 1.

Table 4

HOUSEHEATING CONVERSIONS TO NATURAL GAS IN 1984 BY TYPE OF FUEL

Region	Oil		Propane		Electricity		Other[a]		Total	
	Units	%	Units	%	Units	%	Units	%	Units	%
United States	106,034	77	9,308	7	18,570	14	2,985	2	136,897	100
New England	16,071	93	284	2	778	5	52	b	17,185	13
Middle Atlantic	40,280	92	205	b	1,600	4	1,615	4	43,700	31
East North Central	21,728	74	4,505	15	2,625	9	632	2	29,490	22
West North Central	4,409	64	1,170	17	1,337	19	29	b	6,945	5
South Atlantic	18,290	88	240	1	2,200	11	85	b	20,815	15
East South Central	9	b	785	28	1,906	68	120	4	2,820	2
West South Central	0	0	1,213	55	982	45	0	0	2,195	2
Mountain	196	8	704	30	1,320	55	161	7	2,381	2
Pacific	5,051	44	202	2	5,822	51	291	3	11,366	8

[a]"Other" includes conversions from coal, wood, etc.

[b]Less than 1%.

Table 5

1985 ANTICIPATED ADDITIONS
OF GAS HOUSEHEATING UNITS
(Thousands)

Region, Division, and State	Total (100%)	New Housing Number	New Housing (%)	Conversions Number	Conversions (%)
United States	694.3	571.9	82	122.4	18
NORTHEAST	130.7	75.0	57	55.7	43
New England	29.5	12.0	41	17.5	59
Connecticut	12.3	6.0	49	6.3	51
Maine	0.2	0.1	50	0.1	50
Massachusetts	14.3	4.6	32	9.7	68
New Hampshire	1.2	0.8	67	0.4	33
Rhode Island	0.4	0.1	25	0.3	75
Vermont	1.1	0.4	36	0.7	64
Middle Atlantic	101.2	63.0	62	38.2	38
New Jersey	55.6	36.4	65	19.2	35
New York	21.9	12.8	58	9.1	42
Pennsylvania	23.7	13.8	58	9.9	42
MIDWEST	150.8	117.7	78	33.1	22
East North Central	102.4	76.4	75	26.0	25
Illinois	30.1	23.9	79	6.2	21
Indiana	12.5	6.6	53	5.9	47
Michigan	31.5	27.1	86	4.4	14
Ohio	17.9	14.8	83	3.1	17
Wisconsin	10.4	4.0	38	6.4	62
West North Central	48.4	41.3	85	7.1	15
Iowa	6.0	3.2	53	2.8	47
Kansas	6.2	5.9	95	0.3	5
Minnesota	16.7	13.8	83	2.9	17
Missouri	12.8	12.4	97	0.4	3
Nebraska	3.4	3.3	97	0.1	3
North Dakota	1.6	1.0	62	0.6	38
South Dakota	1.7	1.7	100	0.0	0
SOUTH	155.2	133.1	86	22.1	14
South Atlantic	78.4	61.4	78	17.0	22
Delaware	a	a	a	a	a
District of Columbia	1.2	0.2	17	1.0	83
Florida	3.3	1.6	48	1.7	52
Georgia	40.0	40.0	100	a	0
Maryland	9.5	5.5	58	4.0	42
North Carolina	13.7	7.1	52	6.6	48
South Carolina	a	a	a	a	a
Virginia	10.7	7.0	65	3.7	35
West Virginia	a	a	a	a	a
East South Central	22.1	18.1	82	4.0	18
Alabama	5.7	4.9	86	0.8	14
Kentucky	2.2	1.9	86	0.3	14
Mississippi	3.5	3.0	86	0.5	14
Tennessee	10.7	8.3	78	2.4	22
West South Central	54.7	53.6	98	1.1	2
Arkansas	a	a	a	a	a
Louisiana	a	a	a	a	a
Oklahoma	6.4	6.3	98	0.1	2
Texas	48.3	47.3	98	1.0	2
WEST	257.6	246.1	96	11.5	4
Mountain	57.4	55.5	97	1.9	3
Arizona	3.4	3.4	100	a	0
Colorado	29.8	29.7	100	0.1	0
Idaho	2.5	1.3	52	1.2	48
Montana	0.6	0.6	100	a	0
Nevada	2.2	2.0	91	0.2	9
New Mexico	6.6	6.5	98	0.1	2
Utah	11.3	11.0	97	0.3	3
Wyoming	1.0	1.0	100	a	0
Pacific	200.2	190.6	95	9.6	5
Alaska	a	a	a	a	a
California	182.6	182.6	100	a	0
Hawaii	0.0	0.0	0	0.0	0
Oregon	9.9	3.7	60	6.2	40
Washington	7.7	4.3	56	3.4	44

[a]Insufficient data.

requirement on hooking-up new customers in 1984. Four gas companies reported surcharges or economic feasibility tests on new customer hook-ups. More than half of the reported restrictions, 14, were conservation-oriented requirements such as minimum insulation or structural standards set by state authorities for new customers.

Of the 18 companies reporting some form of restriction or requirement, 7 were in the North Central region (most conservation-oriented requirements were in this region), while the Northeast and South regions followed with 6 and 3, respectively. There were 3 companies reporting restrictions in the West region this year.

Heating Appliance Data

There was a 12% increase in manufacturers' shipments of residential heating equipment (see Table 6), which is consistent with the increase in 1984 in housing completions and starts. Shipments of gas warm air furnaces increased in 1983 by 11%, while gas boiler shipments increased by 22%. Gas wall furnace shipments rose 7%.

Electric warm air furnace shipments increased by 4% in 1984, while heat pump shipments increased 11%. Shipments of oil warm air furnaces increased 16% in 1984, while oil boiler shipments increased 10%.

Gas Consumption Per Unit

Respondents to the survey were asked to estimate the average annual gas consumption for both single and multifamily dwellings. Utilities representing 87% of all gas househeating customers responded to this portion in the survey. These responses were then used to develop the U.S. and regional average estimates of per unit gas use. Both categories were weighted by the number of residential gas customers for each responding utility in each state. In addition, the multifamily data represented a weighted average of dwellings with 2-4 units, and dwellings with 5 or more units (see Table 7).

Due to changes in the reporting methods of some utilities, particularly in the definition of baseload and multifamily gas use and consumption per unit, consumption data from year to year are not always comparable. With this caveat in mind, a review of 1984 combined average consumption data (U.S. average weighted by customer and dwelling type) indicated that total per unit gas consumption was 94.5 Mcf for all units, while househeating was 65.8 Mcf and baseload consumption was 28.7 Mcf. In single family dwellings, gas consumption for househeating was 73.8 Mcf, while baseload consumption was 30.8 Mcf. By comparison the average multifamily dwelling unit consumed 45.9 and 23.5 Mcf, respectively, for househeating and baseload use.

Climatic conditions have the most significant impact on gas use for househeating purposes, but the size and thermal integrity of the structure must also be considered. Reflecting these factors, single family unit consumption was highest for househeating in the North Central region at 103.3 Mcf, and lowest in the West region at 48.8 Mcf. Gas consumption for househeating in multifamily dwellings followed a similar pattern with per unit consumption in the North Central region at 68.7 Mcf, with a low of 26.0 Mcf in the West region. Table 7 includes weather

Table 6

MANUFACTURERS' SHIPMENTS OF
RESIDENTIAL HEATING EQUIPMENT, 1980-1984

Category	1980	1981	1982	1983	1984	Percentage Change from 1983
Central Heating Equipment						
Warm Air Furnaces						
Gas	1,445,700	1,416,700	1,155,600	1,661,765	1,849,200	+11
Oil[a]	63,700	81,200	103,500	127,305	148,025	+16
Electricity	227,400	234,500	177,100	339,950	354,435	+ 4
Boilers						
Gas	293,300	161,600	147,600	147,710	179,870	+22
Oil[a]	51,672	67,492	72,822	82,622	90,586	+10
Electric Heat Pumps	353,971	414,129	316,339	536,819	632,157	+18
Other Gas Heating Equipment						
Wall Furnaces	199,390	127,160	132,640	168,310	179,310	+ 7
Floor Furnaces	12,240	10,552	18,811	18,775	20,825	+11
Total Residential Heating Equipment	2,647,373	2,513,333	2,124,412	3,083,256	3,454,408	+12

[a]Data not expanded.

Source: Gas Appliance Manufacturers Association, Statistical Highlights, June 4, 1985. Heat pump data obtained from the Air Conditioning and Refrigeration Institute.

Table 7

1984 AVERAGE ANNUAL GAS CONSUMPTION/UNIT[a]
BY REGION
(Mcf)

Region	Single Family	Multi-Family[b]	Combined Average[c]	Heating Degree Days[d] 1984	Heating Degree Days[d] 30-year Normal
Northeast					
Heating	102.8	66.2	87.3	5,557	5,724
Baseload	38.9	31.5	35.8		
Total	141.7	97.7	123.1		
Midwest					
Heating	103.3	68.7	94.2	6,217	6,347
Baseload	34.0	25.0	31.6		
Total	137.3	93.7	125.8		
South					
Heating	58.6	43.1	55.2	2,927	2,912
Baseload	31.0	26.5	30.0		
Total	89.6	69.6	85.2		
West					
Heating	48.8	26.0	42.0	2,269	2,647
Baseload	30.2	21.3	27.6		
Total	79.0	47.3	69.6		
U.S. Average					
Heating	73.8	45.9	65.8	4,332	4,402
Baseload	30.8	23.5	28.7		
Total	104.6	69.4	94.5		

[a]Results for 1984 are based on responses from 160 different markets.

[b]Weighted average of dwellings containing 2-4 units and dwellings containing 5 units or more.

[c]Weighted by customer and dwelling type.

[d]Calendar year heating degree days as reported are then weighted by gas househeating customers (see Appendix 1 for detailed definitions). The 30-year normal are also weighted by gas househeating customers as opposed to total population.

data for each region in the form of annual heating degree days for calendar year 1984 and the 30-year normal heating degree days. The degree day data are weighted by gas househeating customers.

Gas consumption for baseload use, which may include water heating, cooking, clothes drying and air conditioning, will vary with the size and type of appliance in the unit. Baseload consumption also has some seasonality reflecting lifestyle preferences under the various climatic conditions. For single family dwellings, baseload consumption was lowest in the West region at 30.2 Mcf, and highest in the Northeast region at 38.9 Mcf. Baseload consumption for multifamily dwellings ranged from 21.3 Mcf in the West to 31.5 Mcf in the Northeast.

Conservation

Companies representing 68% of the gas househeating customers indicated that in 1984 conservation, measured as the total percentage decline in consumption per househeating customer not explained by the weather, has reduced consumption to an average of 23.9% below the pre-1973 level. This is a stabilizing in conservation from last year. Conservation percentages reported by each company were weighted by househeating customer data from each company to derive regional and national conservation estimates. The magnitude of conservation ranged from high of 30.5% below the pre-1973 level of consumption in the Mountain region to a low of 18.1% in the East South Central division (see Table 8).

This year the survey included for the first time a question on baseload conservation. Almost 100 companies, primarily in the Midwest and Northeast regions, indicated that baseload consumption per customer had moderated since 1973 -- mostly through the introduction of more efficient appliances, lower water heater settings, water heater insulation, and pilotless ignitions. However, only thirty-four companies responded with quantitative data describing baseload conservation (as the change in third quarter consumption per customer between a given period of time, i.e., 1973 and 1984). All of the companies that responded to this question also indicated that their baseload consumption did not measurably vary with heating degree days. This response probably reflects the difficulty in developing reliable data on baseload consumption as much as it does the fact that baseload consumption is a smaller and less variable component of overall average gas consumption per home.

Table 8

1983 AVERAGE CONSERVATION BY REGION
(Percent Decline from 1973 Baseline)

Region	Conservation[a] (%)
Northeast	22.0
New England	20.0
Middle Atlantic	21.3
North Central	24.4
East North Central	24.7
West North Central	24.3
South	22.3
South Atlantic	22.3
East South Central	18.1
West South Central	25.3
West	29.8
Mountain	30.5
Pacific	29.9
United States	23.9

[a]The total percent decline in consumption normalized for weather from the pre-embargo 1973 baseline. Results for 1984 are based on individual company responses from 111 different markets and are weighted by househeating customers.

APPENDIX 1

HOUSEHEATING DATA
1984 ACTUAL AND 1985 ANTICIPATED
BY COMPANY

This Appendix presents gas househeating data obtained from a survey of 152 companies on a regional, state and company-by-company basis. Column 1 of the Appendix shows reported residential and househeating customers. Residential and househeating customer data in the 1984 survey have been reconciled with the A.G.A. Uniform Statistical Reports, which form the basis of the A.G.A. Gas Facts publication. A gas customer is equal to a meter for billing purposes, while a househeating unit refers to the number of actual residences which use gas for space heating. Column 2 provides average baseload and heating consumption per customer, and the number of heating degree days (A heating degree day is a measure of the coldness of the weather, based on the extent to which the daily mean temperature falls below a reference temperature, usually 65°F). Column 3 shows the gas heating market share, defined as the percentage of total dwelling units in the franchise areas that are served by gas for househeating.

The market share should not be confused with househeating saturation, which is the number of gas househeating customers as a percentage of the total number of gas customers on a given system. It should also be noted that reported market share figures, in particular, may be inconsistent in some cases due to different interpretations for an individual utility from year to year. This question was revised in 1981 so that data reported in subsequent years may remain consistent. Column 4 summarizes reported househeating unit additions for 1984 and anticipated for 1985, disaggregated into additions from new construction, conversions, losses and net additions. In some cases, a change in methodology may result in inconsistent annual data for an individual utility.

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
NEW ENGLAND									
CONNECTICUT									
SOUTHERN CONNECTICUT GAS CO.					1984	1,175	920	0	2,095
ALL RESIDENTIAL	126,241		26.0	38	1985	1,498	1,500	0	2,998
HOUSEHEATING ONLY	65,450	89.0							
HEATING DEGREE DAYS		5,412							
CONNECTICUT NATURAL GAS					1984	1,529	2,148	120	3,557
ALL RESIDENTIAL	117,608		35.0	41	1985	1,523	2,500	120	3,903
HOUSEHEATING ONLY	82,685	87.0							
HEATING DEGREE DAYS		6,351							
NORTHEAST UTILITIES					1984	2,348	1,664	240	3,772
ALL RESIDENTIAL	141,691		35.0	16	1985	2,550	1,800	130	4,220
HOUSEHEATING ONLY	92,523	105.0							
HEATING DEGREE DAYS		6,173							
NEW ENGLAND									
MASSACHUSETTS									
BOSTON GAS CO.					1984	485	5,242	NA	NA
ALL RESIDENTIAL	448,705		36.0	35	1985	400	3,400	NA	NA
HOUSEHEATING ONLY	228,309	106.0							
HEATING DEGREE DAYS		5,721							
COLONIAL GAS CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	35,570		35.0	40	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	31,705	85.0							
HEATING DEGREE DAYS		5,947							
COMMONWEALTH GAS CO.					1984	1,249	2,109	NA	NA
ALL RESIDENTIAL	189,576		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	152,893	NA							
HEATING DEGREE DAYS		NA							
FALL RIVER GAS CO.					1984	210	228	10	428
ALL RESIDENTIAL	36,942		30.0	78	1985	225	245	15	455
HOUSEHEATING ONLY	30,976	75.0							
HEATING DEGREE DAYS		5,727							
BAY STATE GAS CO.					1984	309	2,778	50	3,037
ALL RESIDENTIAL	186,147		36.0	36	1985	309	2,715	50	2,974
HOUSEHEATING ONLY	128,141	89.0							
HEATING DEGREE DAYS		5,791							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
NEW ENGLAND									
MASSACHUSETTS									
ESSEX COUNTY GAS CO.					1984	200	180	150	230
ALL RESIDENTIAL	27,947		25.0	50	1985	350	250	175	425
HOUSEHEATING ONLY	20,582	85.0							
HEATING DEGREE DAYS		6,747							
LOWELL GAS CO.					1984	1,594	271	120	1,745
ALL RESIDENTIAL	47,734		40.0	52	1985	2,000	268	70	2,198
HOUSEHEATING ONLY	42,526	96.0							
HEATING DEGREE DAYS		6,165							
NEW ENGLAND									
MAINE									
NORTHERN UTILITIES, INC.					1984	41	74	242	-127
ALL RESIDENTIAL	12,373		25.2	2	1985	100	80	150	30
HOUSEHEATING ONLY	9,428	63.7							
HEATING DEGREE DAYS		7,796							
NEW ENGLAND									
NEW HAMPSHIRE									
CONCORD NATURAL GAS CORP.					1984	73	107	5	175
ALL RESIDENTIAL	5,638		31.0	23	1985	150	115	4	261
HOUSEHEATING ONLY	3,949	112.0							
HEATING DEGREE DAYS		7,314							
GAS SERVICE, INC.					1984	925	34	0	959
ALL RESIDENTIAL	17,617		35.0	40	1985	NA	74	0	NA
HOUSEHEATING ONLY	17,323	90.0							
HEATING DEGREE DAYS		7,019							
MANCHESTER GAS CO.					1984	225	34	13	246
ALL RESIDENTIAL	14,512		35.0	36	1985	500	51	24	527
HOUSEHEATING ONLY	9,883	90.0							
HEATING DEGREE DAYS		7,019							
NORTHERN UTILITIES, INC.					1984	127	131	86	172
ALL RESIDENTIAL	7,852		30.0	15	1985	150	165	50	265
HOUSEHEATING ONLY	7,212	72.4							
HEATING DEGREE DAYS		7,796							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
NEW ENGLAND									
RHODE ISLAND									
VALLEY GAS CO.					1984	104	274	67	311
ALL RESIDENTIAL	44,441		40.0	43	1985	140	318	65	393
HOUSEHEATING ONLY	32,302	1[illegible].0							
HEATING DEGREE DAYS		6,219							
NEW ENGLAND									
VERMONT									
VERMONT GAS SYSTEMS					1984	216	595	NA	NA
ALL RESIDENTIAL	12,343		30.0	NA	1985	400	690	NA	NA
HOUSEHEATING ONLY	10,461	108.0							
HEATING DEGREE DAYS		7,529							
MIDDLE ATLANTIC									
NEW JERSEY									
SOUTH JERSEY GAS CO.					1984	4,247	1,445	NA	NA
ALL RESIDENTIAL	151,414		34.2	35	1985	5,322	1,330	138	6,514
HOUSEHEATING ONLY	118,622	72.6							
HEATING DEGREE DAYS		4,821							
NEW JERSEY NATURAL GAS CO.					1984	9,409	2,729	NA	NA
ALL RESIDENTIAL	214,768		41.7	41	1985	13,407	2,195	NA	NA
HOUSEHEATING ONLY	175,835	79.7							
HEATING DEGREE DAYS		4,944							
ELIZABETHTOWN GAS CO.					1984	2,500	3,089	NA	NA
ALL RESIDENTIAL	188,176		NA	NA	1985	2,700	3,200	NA	NA
HOUSEHEATING ONLY	110,886	NA							
HEATING DEGREE DAYS		4,755							
PUBLIC SERVICE ELEC. & GAS					1984	12,190	14,189	30	26,349
ALL RESIDENTIAL	1,204,942		35.0	58	1985	15,000	12,500	30	27,470
HOUSEHEATING ONLY	720,844	105.0							
HEATING DEGREE DAYS		4,743							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
MIDDLE ATLANTIC									
NEW YORK									
BROOKLYN UNION GAS CO.					1984	2,668	8,009	1,200	9,477
ALL RESIDENTIAL	1,047,263		43.0	47	1985	2,500	3,500	1,200	4,800
HOUSEHEATING ONLY	334,619	101.0							
HEATING DEGREE DAYS		4,894							
CENTRAL HUDSON GAS & ELEC.					1984	170	384	NA	NA
ALL RESIDENTIAL	43,239		54.0	18	1985	300	600	NA	NA
HOUSEHEATING ONLY	28,337	68.0							
HEATING DEGREE DAYS		6,334							
NIAGARA MOHAWK POWER CORP.					1984	3,300	NA	NA	NA
ALL RESIDENTIAL	403,878		35.0	40	1985	4,000	NA	NA	NA
HOUSEHEATING ONLY	325,020	105.0							
HEATING DEGREE DAYS		7,080							
CONSOLIDATED EDISON CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	935,060		83.0	45	1985	600	3,230	NA	NA
HOUSEHEATING ONLY	167,512	125.0							
HEATING DEGREE DAYS		4,862							
NATIONAL FUEL GAS DISTR.					1984	1,617	455	643	1,429
ALL RESIDENTIAL	459,127		41.0	83	1985	1,585	446	630	1,401
HOUSEHEATING ONLY	440,680	99.0							
HEATING DEGREE DAYS		6,961							
LONG ISLAND LIGHTING CO.					1984	867	2,109	NA	NA
ALL RESIDENTIAL	369,630		36.4	22	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	180,543	117.4							
HEATING DEGREE DAYS		4,445							
NEW YORK STATE ELEC. & GAS					1984	NA	NA	NA	NA
ALL RESIDENTIAL	112,046		35.0	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	103,513	100.0							
HEATING DEGREE DAYS		6,852							
ROCHESTER GAS & ELECTRIC					1984	2,476	1,645	NA	NA
ALL RESIDENTIAL	219,630		34.4	NA	1985	2,688	900	NA	NA
HOUSEHEATING ONLY	191,192	99.3							
HEATING DEGREE DAYS		6,784							
ORANGE & ROCKLAND UTILITIES					1984	1,101	543	0	1,644
ALL RESIDENTIAL	84,859		39.0	55	1985	1,000	260	0	1,260
HOUSEHEATING ONLY	79,330	108.0							
HEATING DEGREE DAYS		5,726							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
MIDDLE ATLANTIC									
NEW YORK									
COLUMBIA GAS OF NEW YORK					1984	293	22	NA	NA
ALL RESIDENTIAL	58,745		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	53,535	NA							
HEATING DEGREE DAYS		NA							
ST. LAWRENCE GAS CO.					1984	12	165	26	151
ALL RESIDENTIAL	9,518		54.0	75	1985	5	115	70	50
HOUSEHEATING ONLY	6,615	117.0							
HEATING DEGREE DAYS		8,120							
MIDDLE ATLANTIC									
PENNSYLVANIA									
EQUITABLE GAS CO.					1984	1,319	49	2,046	-678
ALL RESIDENTIAL	226,671		39.0	NA	1985	1,500	30	1,880	-350
HOUSEHEATING ONLY	222,005	106.0							
HEATING DEGREE DAYS		6,169							
NATIONAL FUEL GAS DISTR.					1984	351	130	272	209
ALL RESIDENTIAL	184,373		39.0	77	1985	344	127	267	204
HOUSEHEATING ONLY	181,669	103.0							
HEATING DEGREE DAYS		6,471							
NORTH PENN GAS CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	27,610		39.0	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	27,481	80.0							
HEATING DEGREE DAYS		6,667							
THE PEOPLES NATURAL GAS CO.					1984	2,098	312	751	1,659
ALL RESIDENTIAL	300,860		52.0	NA	1985	3,045	335	751	2,629
HOUSEHEATING ONLY	292,324	97.0							
HEATING DEGREE DAYS		5,838							
PHILADELPHIA ELECTRIC CO.					1984	2,325	2,050	100	4,275
ALL RESIDENTIAL	282,778		30.0	38	1985	2,900	1,610	100	4,410
HOUSEHEATING ONLY	211,984	110.0							
HEATING DEGREE DAYS		5,236							
PHILADELPHIA GAS WORKS					1984	1,555	2,337	1,000	2,892
ALL RESIDENTIAL	505,377		48.0	71	1985	1,750	2,550	1,000	3,300
HOUSEHEATING ONLY	389,070	113.0							
HEATING DEGREE DAYS		4,972							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
MIDDLE ATLANTIC									
PENNSYLVANIA									
PENNSYLVANIA GAS & WATER CO.									
ALL RESIDENTIAL	106,371		24.0	50	1984	150	1,329	420	1,059
HOUSEHEATING ONLY	82,934	137.0			1985	200	1,400	430	1,170
HEATING DEGREE DAYS		6,061							
UGI CORPORATION									
ALL RESIDENTIAL	188,857		30.0	25	1984	1,214	2,207	NA	NA
HOUSEHEATING ONLY	117,152	86.2			1985	1,306	1,860	NA	NA
HEATING DEGREE DAYS		5,771							
COLUMBIA GAS OF PENNSYLVANIA									
ALL RESIDENTIAL	305,113		NA	NA	1984	1,392	502	NA	NA
HOUSEHEATING ONLY	286,556	NA			1985	NA	NA	NA	NA
HEATING DEGREE DAYS		NA							
EAST NORTH CENTRAL									
ILLINOIS									
CENTRAL ILLINOIS LIGHT CO.									
ALL RESIDENTIAL	167,927		16.0	75	1984	360	85	275	170
HOUSEHEATING ONLY	164,057	113.0			1985	350	110	250	210
HEATING DEGREE DAYS		5,962							
CENTRAL IL. PUBLIC SERVICE									
ALL RESIDENTIAL	139,838		20.0	80	1984	200	150	499	-149
HOUSEHEATING ONLY	136,135	99.0			1985	200	140	NA	NA
HEATING DEGREE DAYS		5,699							
ILLINOIS POWER CO.									
ALL RESIDENTIAL	348,243		28.8	76	1984	452	688	1,308	-168
HOUSEHEATING ONLY	337,102	98.4			1985	NA	NA	NA	NA
HEATING DEGREE DAYS		5,978							
IOWA-ILLINOIS GAS & ELECTRIC									
ALL RESIDENTIAL	59,109		14.1	85	1984	305	26	302	29
HOUSEHEATING ONLY	56,630	110.5			1985	300	NA	300	NA
HEATING DEGREE DAYS		6,412							
NORTH SHORE GAS CO.									
ALL RESIDENTIAL	94,548		45.0	91	1984	1,179	523	100	1,602
HOUSEHEATING ONLY	89,106	153.0			1985	1,500	400	100	1,800
HEATING DEGREE DAYS		7,147							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST NORTH CENTRAL									
ILLINOIS									
THE PEOPLES GAS LIGHT & COKE					1984	1,300	2,500	4,500	-700
ALL RESIDENTIAL	813,546		41.0	95	1985	1,500	3,000	3,700	800
HOUSEHEATING ONLY	569,454	154.0							
HEATING DEGREE DAYS		7,171							
NORTHERN ILLINOIS GAS CO.					1984	21,310	2,156	4,500	18,966
ALL RESIDENTIAL	1,350,650		37.0	85	1985	20,000	2,500	4,500	18,000
HOUSEHEATING ONLY	1,286,095	128.0							
HEATING DEGREE DAYS		6,540							
EAST NORTH CENTRAL									
INDIANA									
CITIZENS GAS & COKE					1984	NA	NA	NA	NA
ALL RESIDENTIAL	199,867		43.0	75	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	187,135	97.0							
HEATING DEGREE DAYS		5,462							
HOOSIER GAS CORP.					1984	140	59	128	71
ALL RESIDENTIAL	20,743		26.6	NA	1985	120	53	120	53
HOUSEHEATING ONLY	20,536	92.5							
HEATING DEGREE DAYS		4,852							
INDIANA GAS CO.					1984	900	2,385	828	2,457
ALL RESIDENTIAL	285,088		30.3	82	1985	1,000	3,350	700	3,650
HOUSEHEATING ONLY	279,812	89.2							
HEATING DEGREE DAYS		6,071							
KOKOMO GAS & FUEL CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	26,059		30.4	95	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	25,672	132.9							
HEATING DEGREE DAYS		5,734							
LAWRENCEBURG GAS CO.					1984	NA	NA	41	NA
ALL RESIDENTIAL	3,587		27.0	NA	1985	NA	NA	35	NA
HOUSEHEATING ONLY	3,536	88.0							
HEATING DEGREE DAYS		5,239							
NORTHERN IN. PUBLIC SERVICE					1984	3,700	2,250	NA	NA
ALL RESIDENTIAL	496,078		35.0	NA	1985	5,000	2,000	NA	NA
HOUSEHEATING ONLY	474,404	98.3							
HEATING DEGREE DAYS		6,743							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST NORTH CENTRAL									
INDIANA									
OHIO VALLEY GAS CORP.					1984	53	88	148	-7
ALL RESIDENTIAL	21,448		26.0	97	1985	52	110	80	82
HOUSEHEATING ONLY	21,024	125.0							
HEATING DEGREE DAYS		5,581							
SOUTHERN IN. GAS & ELECTRIC					1984	NA	NA	NA	NA
ALL RESIDENTIAL	59,569		38.5	63	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	58,564	122.1							
HEATING DEGREE DAYS		4,623							
EAST NORTH CENTRAL									
MICHIGAN									
BATTLE CREEK GAS CO.					1984	23	266	9	280
ALL RESIDENTIAL	29,366		32.2	93	1985	35	218	NA	NA
HOUSEHEATING ONLY	27,881	121.2							
HEATING DEGREE DAYS		6,077							
CONSUMERS POWER CO.					1984	16,234	600	NA	NA
ALL RESIDENTIAL	1,117,319		30.3	82	1985	19,100	900	NA	NA
HOUSEHEATING ONLY	1,093,093	111.1							
HEATING DEGREE DAYS		6,632							
SOUTHEASTERN MICHIGAN GAS					1984	446	192	84	554
ALL RESIDENTIAL	61,647		27.6	68	1985	1,030	121	84	1,067
HOUSEHEATING ONLY	60,857	98.1							
HEATING DEGREE DAYS		7,280							
LAKE SUPERIOR DIST. POWER					1984	NA	NA	15	NA
ALL RESIDENTIAL	3,669		30.0	42	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	3,598	124.0							
HEATING DEGREE DAYS		8,965							
MICHIGAN CONSOLIDATED GAS					1984	4,700	2,285	NA	NA
ALL RESIDENTIAL	971,689		45.0	85	1985	5,000	2,000	NA	NA
HOUSEHEATING ONLY	934,197	110.0							
HEATING DEGREE DAYS		6,689							
MICHIGAN POWER CO.					1984	1,081	635	25	1,691
ALL RESIDENTIAL	64,177		28.7	66	1985	1,052	505	25	1,532
HOUSEHEATING ONLY	63,368	90.3							
HEATING DEGREE DAYS		6,456							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST NORTH CENTRAL									
MICHIGAN									
MICHIGAN GAS UTILITIES CO.					1984	705	650	249	1,106
ALL RESIDENTIAL	99,354		33.3	69	1985	898	622	444	1,076
HOUSEHEATING ONLY	97,190	91.6							
HEATING DEGREE DAYS		6,614							
WISCONSIN PUBLIC SERVICE					1984	NA	NA	NA	NA
ALL RESIDENTIAL	4,313		32.0	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	4,075	94.0							
HEATING DEGREE DAYS		7,752							
EAST NORTH CENTRAL									
OHIO									
CINCINNATI GAS & ELECTRIC					1984	NA	NA	944	NA
ALL RESIDENTIAL	270,879		35.0	NA	1985	NA	NA	750	NA
HOUSEHEATING ONLY	251,447	89.0							
HEATING DEGREE DAYS		5,239							
DAYTON POWER & LIGHT CO.					1984	298	NA	NA	NA
ALL RESIDENTIAL	244,638		NA	67	1985	1,843	NA	NA	NA
HOUSEHEATING ONLY	240,552	NA							
HEATING DEGREE DAYS		6,327							
EAST OHIO GAS CO.					1984	6,629	1,750	6,759	620
ALL RESIDENTIAL	930,076		40.0	99	1985	6,500	1,600	6,500	1,600
HOUSEHEATING ONLY	920,116	100.0							
HEATING DEGREE DAYS		6,561							
NATIONAL GAS & OIL CORP.					1984	180	NA	2	NA
ALL RESIDENTIAL	15,144		48.7	NA	1985	196	NA	2	NA
HOUSEHEATING ONLY	15,144	67.0							
HEATING DEGREE DAYS		6,379							
NATIONAL FUEL GAS DISTR.					1984	11	3	29	-15
ALL RESIDENTIAL	5,368		37.0	76	1985	11	3	8	6
HOUSEHEATING ONLY	5,290	106.0							
HEATING DEGREE DAYS		6,471							
OHIO GAS CO.					1984	50	55	17	88
ALL RESIDENTIAL	22,887		40.0	80	1985	50	45	20	75
HOUSEHEATING ONLY	22,540	127.0							
HEATING DEGREE DAYS		6,546							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
EAST NORTH CENTRAL									
OHIO									
TOLEDO EDISON CO.					1984	5	68	0	73
ALL RESIDENTIAL	4,768		32.4	68	1985	5	20	0	25
HOUSEHEATING ONLY	4,630	102.9							
HEATING DEGREE DAYS		6,607							
WEST OHIO GAS CO.					1984	148	147	166	129
ALL RESIDENTIAL	49,342		26.4	85	1985	150	140	90	200
HOUSEHEATING ONLY	48,148	92.6							
HEATING DEGREE DAYS		6,305							
COLUMBIA GAS OF OHIO					1984	9,243	1,293	NA	NA
ALL RESIDENTIAL	987,252		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	976,738	NA							
HEATING DEGREE DAYS		NA							
EAST NORTH CENTRAL									
WISCONSIN									
LAKE SUPERIOR DIST. POWER					1984	43	68	19	92
ALL RESIDENTIAL	6,152		34.0	19	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	6,001	122.0							
HEATING DEGREE DAYS		8,965							
MADISON GAS & ELECTRIC CO.					1984	1,369	1,207	NA	NA
ALL RESIDENTIAL	64,150		31.8	72	1985	1,394	1,228	NA	NA
HOUSEHEATING ONLY	57,989	93.9							
HEATING DEGREE DAYS		7,450							
WISCONSIN GAS CO.					1984	1,702	5,058	107	6,653
ALL RESIDENTIAL	384,144		29.0	78	1985	1,028	2,680	NA	NA
HOUSEHEATING ONLY	336,035	105.0							
HEATING DEGREE DAYS		6,844							
NORTHERN STATES POWER CO.					1984	185	488	205	468
ALL RESIDENTIAL	28,680		29.0	20	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	24,531	98.0							
HEATING DEGREE DAYS		8,120							
SUPERIOR WATER,LIGHT & POWER					1984	14	41	26	29
ALL RESIDENTIAL	7,994		31.8	58	1985	21	70	25	66
HOUSEHEATING ONLY	5,616	110.5							
HEATING DEGREE DAYS		9,416							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST NORTH CENTRAL									
WISCONSIN									
WISCONSIN FUEL & LIGHT CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	34,727		28.2	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	32,873	88.9							
HEATING DEGREE DAYS		7,833							
WISCONSIN PUBLIC SERVICE					1984	NA	NA	NA	NA
ALL RESIDENTIAL	138,916		32.0	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	130,640	94.0							
HEATING DEGREE DAYS		7,752							
WISCONSIN SOUTHERN GAS CO.					1984	270	206	20	456
ALL RESIDENTIAL	35,034		33.0	80	1985	275	390	20	645
HOUSEHEATING ONLY	33,970	87.0							
HEATING DEGREE DAYS		7,267							
WEST NORTH CENTRAL									
IOWA									
CEDAR FALLS UTILITIES					1984	10	242	12	240
ALL RESIDENTIAL	9,050		NA	65	1985	10	62	10	62
HOUSEHEATING ONLY	8,488	NA							
HEATING DEGREE DAYS		6,050							
IOWA ELECTRIC LIGHT & POWER					1984	NA	1,048	NA	NA
ALL RESIDENTIAL	115,132		28.0	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	112,466	92.0							
HEATING DEGREE DAYS		6,287							
IOWA-ILLINOIS GAS & ELECTRIC					1984	1,346	28	350	1,024
ALL RESIDENTIAL	147,901		16.6	85	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	142,143	100.5							
HEATING DEGREE DAYS		6,412							
IOWA GAS CO.					1984	800	481	107	1,174
ALL RESIDENTIAL	120,833		27.0	92	1985	850	510	107	1,253
HOUSEHEATING ONLY	116,953	88.2							
HEATING DEGREE DAYS		4,667							
IOWA PUBLIC SERVICE CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	97,562		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	90,930	NA							
HEATING DEGREE DAYS		7,040							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST NORTH CENTRAL									
KANSAS									
ARKANSAS LOUISIANA GAS CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	18,248		39.5	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	18,248	65.5							
HEATING DEGREE DAYS		4,868							
MIDWEST ENERGY, INC.					1984	273	NA	NA	NA
ALL RESIDENTIAL	9,220		30.8	90	1985	225	NA	NA	NA
HOUSEHEATING ONLY	9,220	110.9							
HEATING DEGREE DAYS		5,558							
KPL GAS SERVICE					1984	4,689	180	328	4,541
ALL RESIDENTIAL	378,522		30.0	90	1985	3,957	180	277	3,860
HOUSEHEATING ONLY	340,670	90.0							
HEATING DEGREE DAYS		5,159							
KANSAS POWER & LIGHT CO.					1984	1,600	58	345	1,313
ALL RESIDENTIAL	120,074		28.0	NA	1985	1,700	80	555	1,225
HOUSEHEATING ONLY	110,074	88.0							
HEATING DEGREE DAYS		5,145							
WEST NORTH CENTRAL									
MINNESOTA									
AUSTIN UTILITIES					1984	25	3	13	15
ALL RESIDENTIAL	9,384		NA	98	1985	15	0	10	5
HOUSEHEATING ONLY	8,540	NA							
HEATING DEGREE DAYS		7,696							
CITY OF DULUTH					1984	23	178	55	146
ALL RESIDENTIAL	19,150		45.0	60	1985	30	186	NA	NA
HOUSEHEATING ONLY	12,000	140.0							
HEATING DEGREE DAYS		9,416							
MONTANA-DAKOTA UTILITIES CO.					1984	25	0	10	15
ALL RESIDENTIAL	1,594		24.7	75	1985	25	0	0	25
HOUSEHEATING ONLY	1,092	85.3							
HEATING DEGREE DAYS		9,482							
NORTHERN STATES POWER CO.					1984	2,498	1,650	110	4,038
ALL RESIDENTIAL	216,809		30.0	71	1985	2,400	1,620	110	3,910
HOUSEHEATING ONLY	199,816	105.0							
HEATING DEGREE DAYS		7,884							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST NORTH CENTRAL									
MINNESOTA									
NORTH CENTRAL PUBLIC SERVICE					1984	1,744	723	0	2,467
ALL RESIDENTIAL	42,495		34.0	85	1985	1,800	550	0	2,350
HOUSEHEATING ONLY	44,568	115.0							
HEATING DEGREE DAYS		8,171							
MINNEGASCO, INC.					1984	10,166	762	285	10,643
ALL RESIDENTIAL	391,948		36.0	82	1985	9,500	500	315	9,685
HOUSEHEATING ONLY	382,066	97.0							
HEATING DEGREE DAYS		7,899							
WEST NORTH CENTRAL									
MISSOURI									
KPL GAS SERVICE					1984	2,567	200	179	2,588
ALL RESIDENTIAL	376,249		30.0	90	1985	5,780	200	405	5,575
HOUSEHEATING ONLY	338,624	90.0							
HEATING DEGREE DAYS		5,437							
LACLEDE GAS CO.					1984	5,650	150	0	5,800
ALL RESIDENTIAL	525,688		43.5	80	1985	6,300	150	2,650	3,800
HOUSEHEATING ONLY	508,717	76.6							
HEATING DEGREE DAYS		5,070							
MISSOURI PUBLIC SERVICE CO.					1984	NA	NA	75	NA
ALL RESIDENTIAL	35,277		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	35,118	NA							
HEATING DEGREE DAYS		5,437							
CITY OF SPRINGFIELD					1984	NA	NA	NA	NA
ALL RESIDENTIAL	50,158		39.0	90	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	50,158	73.0							
HEATING DEGREE DAYS		4,022							
ASSOCIATED NATURAL GAS CO.					1984	299	NA	0	NA
ALL RESIDENTIAL	41,166		NA	NA	1985	300	NA	0	NA
HOUSEHEATING ONLY	41,166	99.0							
HEATING DEGREE DAYS		3,740							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
WEST NORTH CENTRAL									
NEBRASKA									
KPL GAS SERVICE					1984	0	0	0	0
ALL RESIDENTIAL	3,158		35.0	90	1985	10	3	1	12
HOUSEHEATING ONLY	2,842	95.0							
HEATING DEGREE DAYS		5,536							
HASTINGS UTILITIES					1984	28	0	20	8
ALL RESIDENTIAL	7,935		NA	88	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	7,935	120.6							
HEATING DEGREE DAYS		5,596							
IOWA PUBLIC SERVICE CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	3,410		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	3,323	NA							
HEATING DEGREE DAYS		7,040							
METROPOLITAN UTILITIES DIST.					1984	2,000	40	240	1,800
ALL RESIDENTIAL	123,326		45.0	84	1985	1,700	50	250	1,500
HOUSEHEATING ONLY	119,911	87.0							
HEATING DEGREE DAYS		6,684							
NORTHWESTERN PUBLIC SERVICE					1984	200	0	0	200
ALL RESIDENTIAL	32,553		36.0	99	1985	250	0	0	250
HOUSEHEATING ONLY	32,424	90.0							
HEATING DEGREE DAYS		7,043							
MINNEGASCO, INC.					1984	761	54	60	755
ALL RESIDENTIAL	103,560		34.8	94	1985	800	20	65	735
HOUSEHEATING ONLY	101,984	79.7							
HEATING DEGREE DAYS		6,047							
WEST NORTH CENTRAL									
NORTH DAKOTA									
MONTANA-DAKOTA UTILITIES CO.					1984	850	90	125	815
ALL RESIDENTIAL	64,219		28.9	96	1985	850	150	100	900
HOUSEHEATING ONLY	63,577	96.1							
HEATING DEGREE DAYS		8,920							
NORTHERN STATES POWER CO.					1984	130	291	40	381
ALL RESIDENTIAL	18,231		24.0	42	1985	150	360	40	470
HOUSEHEATING ONLY	14,387	110.0							
HEATING DEGREE DAYS		8,796							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST NORTH CENTRAL									
SOUTH DAKOTA									
IOWA PUBLIC SERVICE CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	7,229		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	6,952	NA							
HEATING DEGREE DAYS		7,040							
MONTANA-DAKOTA UTILITIES CO.					1984	500	0	60	440
ALL RESIDENTIAL	26,108		29.1	96	1985	500	0	50	450
HOUSEHEATING ONLY	25,847	70.6							
HEATING DEGREE DAYS		7,267							
NORTHWESTERN PUBLIC SERVICE					1984	175	12	0	187
ALL RESIDENTIAL	24,885		25.0	75	1985	200	0	0	200
HOUSEHEATING ONLY	23,785	100.0							
HEATING DEGREE DAYS		7,978							
MINNEGASCO, INC.					1984	1,962	46	20	1,988
ALL RESIDENTIAL	34,228		34.0	90	1985	900	20	20	900
HOUSEHEATING ONLY	33,896	89.0							
HEATING DEGREE DAYS		7,696							
SOUTH ATLANTIC									
DISTRICT OF COLUMBIA									
WASHINGTON GAS LIGHT CO.					1984	100	1,200	1,600	-300
ALL RESIDENTIAL	131,767		34.0	71	1985	200	1,000	1,300	-100
HOUSEHEATING ONLY	97,951	96.0							
HEATING DEGREE DAYS		4,285							
SOUTH ATLANTIC									
DELAWARE									
DELMARVA POWER & LIGHT CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	70,185		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	48,174	NA							
HEATING DEGREE DAYS		NA							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
SOUTH ATLANTIC									
FLORIDA									
PEOPLES GAS SYSTEM, INC.									
ALL RESIDENTIAL	150,735		18.0	37	1984	740	1,372	2,110	2
HOUSEHEATING ONLY	114,352	21.0			1985	1,000	1,080	2,110	-30
HEATING DEGREE DAYS		256							
SOUTH ATLANTIC									
GEORGIA									
ATLANTA GAS LIGHT CO.									
ALL RESIDENTIAL	841,343		40.0	67	1984	31,576	NA	NA	NA
HOUSEHEATING ONLY	807,504	53.0			1985	40,000	NA	NA	NA
HEATING DEGREE DAYS		3,288							
SOUTH ATLANTIC									
MARYLAND									
BALTIMORE GAS & ELECTRIC CO.									
ALL RESIDENTIAL	480,613		45.5	43	1984	1,395	4,539	450	5,484
HOUSEHEATING ONLY	344,484	87.4			1985	1,375	2,500	300	3,575
HEATING DEGREE DAYS		4,682							
WASHINGTON GAS LIGHT CO.									
ALL RESIDENTIAL	220,445		35.1	72	1984	4,000	1,200	900	4,300
HOUSEHEATING ONLY	211,926	90.0			1985	4,100	1,500	800	4,800
HEATING DEGREE DAYS		4,285							
COLUMBIA GAS OF MARYLAND									
ALL RESIDENTIAL	25,999		NA	NA	1984	48	58	NA	NA
HOUSEHEATING ONLY	21,921	NA			1985	NA	NA	NA	NA
HEATING DEGREE DAYS		NA							
SOUTH ATLANTIC									
NORTH CAROLINA									
PIEDMONT NATURAL GAS CO.									
ALL RESIDENTIAL	151,760		NA	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	148,725	80.8			1985	NA	NA	NA	NA
HEATING DEGREE DAYS		3,564							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
SOUTH ATLANTIC									
NORTH CAROLINA									
PUBLIC SERVICE OF N.CAROLINA					1984	4,100	3,900	310	7,690
ALL RESIDENTIAL	149,744		24.2	26	1985	3,900	3,650	325	7,225
HOUSEHEATING ONLY	137,764	79.9							
HEATING DEGREE DAYS		3,457							
CITY OF WILSON					1984	70	28	NA	NA
ALL RESIDENTIAL	5,903		NA	29	1985	50	24	NA	NA
HOUSEHEATING ONLY	5,498	NA							
HEATING DEGREE DAYS		NA							
SOUTH ATLANTIC									
SOUTH CAROLINA									
PIEDMONT NATURAL GAS CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	47,130		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	46,187	70.8							
HEATING DEGREE DAYS		3,315							
COMMISSION OF PUBLIC WORKS					1984	107	45	15	137
ALL RESIDENTIAL	9,198		14.0	47	1985	100	140	10	230
HOUSEHEATING ONLY	6,439	55.0							
HEATING DEGREE DAYS		2,901							
PEOPLES NATURAL GAS OF SC.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	6,121		19.0	22	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	5,680	41.0							
HEATING DEGREE DAYS		2,987							
SOUTH CAROLINA ELEC. & GAS					1984	NA	NA	NA	NA
ALL RESIDENTIAL	172,853		16.5	48	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	152,655	59.5							
HEATING DEGREE DAYS		2,613							
SOUTH ATLANTIC									
VIRGINIA									
CITY OF CHARLOTTESVILLE					1984	150	68	20	198
ALL RESIDENTIAL	12,510		35.0	NA	1985	200	115	32	283
HOUSEHEATING ONLY	9,883	102.0							
HEATING DEGREE DAYS		3,773							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
SOUTH ATLANTIC									
VIRGINIA									
CITY OF DANVILLE									
ALL RESIDENTIAL	14,012		22.7	70	1984	70	46	6	110
HOUSEHEATING ONLY	12,350	85.5			1985	100	90	10	180
HEATING DEGREE DAYS		3,797							
CITY OF RICHMOND									
ALL RESIDENTIAL	66,612		35.7	NA	1984	307	674	NA	NA
HOUSEHEATING ONLY	51,308	53.8			1985	350	750	NA	NA
HEATING DEGREE DAYS		3,825							
ROANOKE GAS CO.									
ALL RESIDENTIAL	30,749		29.0	38	1984	432	277	150	559
HOUSEHEATING ONLY	28,771	92.0			1985	NA	NA	NA	NA
HEATING DEGREE DAYS		4,017							
VIRGINIA NATURAL GAS									
ALL RESIDENTIAL	114,393		37.0	31	1984	857	540	1,350	47
HOUSEHEATING ONLY	90,968	55.0			1985	1,100	450	800	750
HEATING DEGREE DAYS		3,304							
COLUMBIA GAS OF VIRGINIA									
ALL RESIDENTIAL	35,467		NA	NA	1984	220	114	NA	NA
HOUSEHEATING ONLY	34,501	NA			1985	NA	NA	NA	NA
HEATING DEGREE DAYS		NA							
WASHINGTON GAS LIGHT CO.									
ALL RESIDENTIAL	173,141		30.4	59	1984	4,100	2,220	700	5,620
HOUSEHEATING ONLY	161,385	83.0			1985	4,300	1,800	700	5,400
HEATING DEGREE DAYS		4,285							
SOUTH ATLANTIC									
WEST VIRGINIA									
EQUITABLE GAS CO.									
ALL RESIDENTIAL	10,121		33.0	NA	1984	67	NA	NA	NA
HOUSEHEATING ONLY	9,800	88.0			1985	80	NA	NA	NA
HEATING DEGREE DAYS		NA							
HOPE NATURAL GAS CO.									
ALL RESIDENTIAL	102,567		31.9	NA	1984	230	30	NA	NA
HOUSEHEATING ONLY	99,490	77.3			1985	200	40	NA	NA
HEATING DEGREE DAYS		5,251							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
SOUTH ATLANTIC									
WEST VIRGINIA									
MOUNTAINEER GAS CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	184,224		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	182,354	NA							
HEATING DEGREE DAYS		NA							
EAST SOUTH CENTRAL									
ALABAMA									
ALABAMA GAS CORP.					1984	4,020	376	2,100	2,296
ALL RESIDENTIAL	352,027		30.0	70	1985	3,483	538	2,100	1,921
HOUSEHEATING ONLY	341,466	54.0							
HEATING DEGREE DAYS		2,705							
DECATUR UTILITIES					1984	18	18	5	31
ALL RESIDENTIAL	4,036		11.0	25	1985	20	32	5	47
HOUSEHEATING ONLY	3,990	53.0							
HEATING DEGREE DAYS		2,900							
CITY OF FLORENCE					1984	NA	NA	39	NA
ALL RESIDENTIAL	8,180		NA	50	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	7,135	NA							
HEATING DEGREE DAYS		4,564							
SOUTHEAST ALABAMA GAS DIST.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	31,585		18.0	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	31,585	59.0							
HEATING DEGREE DAYS		1,899							
EAST SOUTH CENTRAL									
KENTUCKY									
COLUMBIA GAS OF KENTUCKY					1984	573	53	NA	NA
ALL RESIDENTIAL	101,964		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	101,283	NA							
HEATING DEGREE DAYS		NA							
EQUITABLE GAS CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	4,081		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	3,900	NA							
HEATING DEGREE DAYS		NA							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST SOUTH CENTRAL									
KENTUCKY									
LOUISVILLE GAS & ELECTRIC					1984	1,669	15	1,093	591
ALL RESIDENTIAL	215,458		35.0	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	210,592	81.0							
HEATING DEGREE DAYS		4,364							
UNION LIGHT, HEAT & POWER					1984	NA	NA	214	NA
ALL RESIDENTIAL	55,605		33.0	NA	1985	NA	NA	200	NA
HOUSEHEATING ONLY	52,948	93.0							
HEATING DEGREE DAYS		5,239							
WESTERN KENTUCKY GAS CO.					1984	932	210	NA	NA
ALL RESIDENTIAL	125,040		43.0	NA	1985	1,200	220	NA	NA
HOUSEHEATING ONLY	112,536	65.0							
HEATING DEGREE DAYS		4,679							
EAST SOUTH CENTRAL									
MISSISSIPPI									
ENTEX, INC.					1984	400	340	40	700
ALL RESIDENTIAL	96,428		30.0	82	1985	500	240	40	700
HOUSEHEATING ONLY	92,300	NA							
HEATING DEGREE DAYS		2,500							
MISSISSIPPI VALLEY GAS CO.					1984	2,451	230	953	1,728
ALL RESIDENTIAL	198,224		30.0	97	1985	2,500	225	1,000	1,725
HOUSEHEATING ONLY	198,224	54.9							
HEATING DEGREE DAYS		2,347							
EAST SOUTH CENTRAL									
TENNESSEE									
MEMPHIS LIGHT, GAS & WATER					1984	3,227	25	40	3,212
ALL RESIDENTIAL	222,551		30.0	77	1985	3,000	25	40	2,985
HOUSEHEATING ONLY	214,539	90.0							
HEATING DEGREE DAYS		3,416							
NASHVILLE GAS CO.					1984	3,307	556	NA	NA
ALL RESIDENTIAL	55,426		30.0	27	1985	3,000	850	NA	NA
HOUSEHEATING ONLY	53,763	65.0							
HEATING DEGREE DAYS		3,691							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST SOUTH CENTRAL									
TENNESSEE									
MIDDLE TENNESSEE NATURAL GAS					1984	100	369	40	429
ALL RESIDENTIAL	9,390		18.0	NA	1985	150	370	40	480
HOUSEHEATING ONLY	6,920	68.0							
HEATING DEGREE DAYS		3,693							
JACKSON UTILITY DIVISION					1984	201	26	44	183
ALL RESIDENTIAL	14,682		22.4	71	1985	250	23	25	248
HOUSEHEATING ONLY	14,558	72.5							
HEATING DEGREE DAYS		3,500							
WEST SOUTH CENTRAL									
ARKANSAS									
ARKANSAS LOUISIANA GAS CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	347,673		34.6	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	347,673	60.5							
HEATING DEGREE DAYS		3,076							
ARKANSAS WESTERN GAS CO.					1984	1,700	NA	NA	NA
ALL RESIDENTIAL	65,773		35.6	45	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	64,457	64.4							
HEATING DEGREE DAYS		4,351							
ARKANSAS OKLAHOMA GAS CORP.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	32,546		36.1	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	32,546	76.4							
HEATING DEGREE DAYS		3,436							
ASSOCIATED NATURAL GAS CO.					1984	732	NA	0	NA
ALL RESIDENTIAL	16,748		NA	NA	1985	500	NA	0	NA
HOUSEHEATING ONLY	16,748	84.5							
HEATING DEGREE DAYS		3,740							
WEST SOUTH CENTRAL									
LOUISIANA									
ARKANSAS LOUISIANA GAS CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	129,633		33.5	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	129,633	55.5							
HEATING DEGREE DAYS		2,056							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST SOUTH CENTRAL									
LOUISIANA									
TRANS LOUISIANA GAS CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	62,829		28.0	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	62,829	41.0							
HEATING DEGREE DAYS		1,817							
NEW ORLEANS PUBLIC SERVICE					1984	NA	NA	NA	NA
ALL RESIDENTIAL	159,459		NA	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	157,864	NA							
HEATING DEGREE DAYS		1,183							
ENTEX, INC.					1984	NA	140	40	NA
ALL RESIDENTIAL	122,635		29.0	80	1985	1,000	200	40	1,160
HOUSEHEATING ONLY	117,175	32.0							
HEATING DEGREE DAYS		1,346							
WEST SOUTH CENTRAL									
OKLAHOMA									
ARKANSAS LOUISIANA GAS CO.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	108,564		34.2	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	108,564	56.8							
HEATING DEGREE DAYS		3,771							
ARKANSAS OKLAHOMA GAS CORP.					1984	NA	NA	NA	NA
ALL RESIDENTIAL	13,269		30.2	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	13,269	64.7							
HEATING DEGREE DAYS		3,436							
KPL GAS SERVICE					1984	0	0	0	0
ALL RESIDENTIAL	33,412		25.0	90	1985	0	0	0	0
HOUSEHEATING ONLY	30,071	85.0							
HEATING DEGREE DAYS		3,528							
LONE STAR GAS CO.					1984	331	30	137	224
ALL RESIDENTIAL	33,162		25.0	58	1985	348	30	137	241
HOUSEHEATING ONLY	29,514	55.0							
HEATING DEGREE DAYS		2,898							
OKLAHOMA NATURAL GAS CO.					1984	17,200	100	2,000	15,300
ALL RESIDENTIAL	593,620		32.0	88	1985	6,000	100	2,000	4,100
HOUSEHEATING ONLY	592,730	74.0							
HEATING DEGREE DAYS		3,669							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
WEST SOUTH CENTRAL									
TEXAS									
ARKANSAS LOUISIANA GAS CO.									
ALL RESIDENTIAL	53,297		30.1	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	53,297	49.9			1985	NA	NA	NA	NA
HEATING DEGREE DAYS		3,335							
LONE STAR GAS CO.									
ALL RESIDENTIAL	1,069,557		25.0	58	1984	10,698	850	4,280	7,268
HOUSEHEATING ONLY	951,906	55.0			1985	11,233	850	4,280	7,803
HEATING DEGREE DAYS		2,898							
CITY PUBLIC SERVICE									
ALL RESIDENTIAL	260,101		28.6	73	1984	6,104	0	3,756	2,348
HOUSEHEATING ONLY	239,293	31.7			1985	6,271	0	1,856	4,415
HEATING DEGREE DAYS		1,489							
ENTEX, INC.									
ALL RESIDENTIAL	935,077		28.0	80	1984	15,000	800	110	15,690
HOUSEHEATING ONLY	916,375	32.0			1985	18,000	800	110	18,690
HEATING DEGREE DAYS		1,328							
ENERGAS CO.									
ALL RESIDENTIAL	251,995		46.0	85	1984	2,046	30	120	1,956
HOUSEHEATING ONLY	226,796	68.0			1985	3,000	45	130	2,915
HEATING DEGREE DAYS		3,592							
MOUNTAIN									
ARIZONA									
ARIZONA PUBLIC SERVICE CO.									
ALL RESIDENTIAL	314,492		NA	NA	1984	NA	NA	700	NA
HOUSEHEATING ONLY	314,492	NA			1985	NA	NA	950	NA
HEATING DEGREE DAYS		884							
CITIZENS UTILITIES CO.									
ALL RESIDENTIAL	5,250		31.2	90	1984	NA	7	0	NA
HOUSEHEATING ONLY	4,735	38.1			1985	NA	25	0	NA
HEATING DEGREE DAYS		2,200							
SOUTHWEST GAS CORP.									
ALL RESIDENTIAL	167,446		31.0	75	1984	2,612	NA	279	NA
HOUSEHEATING ONLY	167,446	20.3			1985	3,000	NA	300	NA
HEATING DEGREE DAYS		1,680							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
MOUNTAIN									
COLORADO									
CITY OF COLORADO									
ALL RESIDENTIAL	101,926		32.0	98	1984	7,000	NA	NA	NA
HOUSEHEATING ONLY	87,000	69.0			1985	5,000	NA	NA	NA
HEATING DEGREE DAYS		6,661							
PUBLIC SERVICE OF COLORADO									
ALL RESIDENTIAL	673,249		34.6	75	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	673,249	104.9			1985	NA	NA	NA	NA
HEATING-DEGREE DAYS		6,362							
ROCKY MOUNTAIN NATURAL GAS									
ALL RESIDENTIAL	19,485		31.6	NA	1984	400	100	0	500
HOUSEHEATING ONLY	19,485	103.0			1985	400	100	0	500
HEATING DEGREE DAYS		6,900							
MOUNTAIN									
IDAHO									
WASHINGTON WATER POWER CO.									
ALL RESIDENTIAL	14,940		12.6	NA	1984	173	262	NA	NA
HOUSEHEATING ONLY	13,622	72.0			1985	NA	NA	NA	NA
HEATING DEGREE DAYS		7,292							
INTERMOUNTAIN GAS CO.									
ALL RESIDENTIAL	88,229		16.2	46	1984	1,249	1,461	1,042	1,668
HOUSEHEATING ONLY	88,229	54.4			1985	1,265	1,235	1,000	1,500
HEATING DEGREE DAYS		7,523							
MOUNTAIN									
MONTANA									
GREAT FALLS GAS CO.									
ALL RESIDENTIAL	20,206		40.0	85	1984	113	10	77	46
HOUSEHEATING ONLY	20,206	76.0			1985	100	100	50	150
HEATING DEGREE DAYS		NA							
MONTANA-DAKOTA UTILITIES CO.									
ALL RESIDENTIAL	55,674		29.5	94	1984	500	0	100	400
HOUSEHEATING ONLY	55,117	85.4			1985	500	0	100	400
HEATING DEGREE DAYS		7,426							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	YEAR	GAS-HTD HOUSING UNIT ADDITIONS NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
MOUNTAIN									
MONTANA									
MONTANA POWER CO.									
ALL RESIDENTIAL	90,119		NA	NA	1984	713	NA	NA	NA
HOUSEHEATING ONLY	90,119	NA			1985	NA	NA	NA	NA
HEATING DEGREE DAYS		NA							
MOUNTAIN									
NEW MEXICO									
GAS CO. OF NEW MEXICO									
ALL RESIDENTIAL	274,309		28.6	82	1984	6,287	51	0	6,338
HOUSEHEATING ONLY	274,309	70.2			1985	6,500	50	0	6,550
HEATING DEGREE DAYS		4,604							
MOUNTAIN									
NEVADA									
SIERRA PACIFIC POWER CO.									
ALL RESIDENTIAL	52,584		24.6	63	1984	2,821	150	150	2,821
HOUSEHEATING ONLY	50,859	48.4			1985	2,000	200	200	2,000
HEATING DEGREE DAYS		5,846							
SOUTHWEST GAS CORP.									
ALL RESIDENTIAL	123,251		36.1	40	1984	3,879	18	NA	NA
HOUSEHEATING ONLY	123,251	33.5			1985	NA	38	NA	NA
HEATING DEGREE DAYS		2,430							
MOUNTAIN									
UTAH									
MOUNTAIN FUEL SUPPLY CO.									
ALL RESIDENTIAL	384,676		35.2	89	1984	11,795	326	1,388	10,733
HOUSEHEATING ONLY	384,676	79.8			1985	11,000	300	NA	NA
HEATING DEGREE DAYS		6,211							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) INC BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	YEAR	GAS-HTD HOUSING UNIT ADDITIONS NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
MOUNTAIN									
WYOMING									
MONTANA-DAKOTA UTILITIES CO.									
ALL RESIDENTIAL	11,179				1984	100	0	125	-25
HOUSEHEATING ONLY	11,067	91.5	31.4	85	1985	100	0	25	75
HEATING DEGREE DAYS		8,222							
MOUNTAIN FUEL SUPPLY CO.									
ALL RESIDENTIAL	18,686				1984	282	18	70	230
HOUSEHEATING ONLY	18,686	84.8	35.2	72	1985	300	20	70	250
HEATING DEGREE DAYS		8,989							
WYOMING GAS CO.									
ALL RESIDENTIAL	5,486				1984	NA	NA	6	NA
HOUSEHEATING ONLY	5,480	120.0	34.0	90	1985	NA	NA	NA	NA
HEATING DEGREE DAYS		8,230							
NORTHERN GAS DIVISION									
ALL RESIDENTIAL	40,241				1984	220	0	70	150
HOUSEHEATING ONLY	40,241	100.0	36.0	90	1985	200	0	70	130
HEATING DEGREE DAYS		7,951							
PACIFIC									
CALIFORNIA									
PACIFIC GAS & ELECTRIC CO.									
ALL RESIDENTIAL	2,835,270				1984	90,000	NA	43,000	NA
HOUSEHEATING ONLY	2,473,197	49.0	24.2	80	1985	93,000	NA	43,000	NA
HEATING DEGREE DAYS		1,394							
SAN DIEGO GAS & ELECTRIC									
ALL RESIDENTIAL	521,482				1984	10,606	0	0	10,606
HOUSEHEATING ONLY	407,000	19.0	24.0	80	1985	9,364	0	0	9,364
HEATING DEGREE DAYS		713							
SOUTHERN CALIFORNIA GAS CO.									
ALL RESIDENTIAL	3,796,332				1984	83,600	NA	6,200	NA
HOUSEHEATING ONLY	3,703,509	36.4	35.9	93	1985	80,200	NA	6,600	NA
HEATING DEGREE DAYS		1,105							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	YEAR	GAS-HTD HOUSING UNIT ADDITIONS NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
PACIFIC									
OREGON									
NORTHWEST NATURAL GAS CO.					1984	2,812	5,838	2,124	6,526
ALL RESIDENTIAL	230,661		24.1	32	1985	3,106	5,166	3,290	4,982
HOUSEHEATING ONLY	214,266	56.2							
HEATING DEGREE DAYS		4,314							
PACIFIC									
WASHINGTON									
NORTHWEST NATURAL GAS CO.					1984	150	58	55	153
ALL RESIDENTIAL	5,504		24.1	11	1985	150	58	55	153
HOUSEHEATING ONLY	5,057	56.2							
HEATING DEGREE DAYS		4,314							
WASHINGTON WATER POWER CO.					1984	373	605	NA	NA
ALL RESIDENTIAL	52,752		13.5	NA	1985	NA	NA	NA	NA
HOUSEHEATING ONLY	51,415	88.9							
HEATING DEGREE DAYS		7,292							
WASHINGTON NATURAL GAS CO.					1984	5,143	3,655	824	7,974
ALL RESIDENTIAL	238,701		16.6	30	1985	4,200	3,385	878	6,707
HOUSEHEATING ONLY	232,814	71.8							
HEATING DEGREE DAYS		5,002							

APPENDIX 2

COMPETITIVE FUEL PRICES
(as of December 31, 1984)

The information in this section presents the average delivered price (as of December 31, 1984) of competitive fuels distributed to residential customers, gas' principal competition in each market, and the average annual gas heating bill. The data reflect prices in the principal city served within each company's franchise area. Regional fuel prices for competitive fuels are listed at the end of each division. Prices are expressed in dollars per million Btu for comparison.

The prices for natural gas represent househeating use only and exclude baseload prices. Baseload consumption includes all domestic uses of gas (e.g., ranges, water heaters, and clothes dryers) except househeating and air conditioning. Moreover, baseload prices are generally higher than househeating prices because utilities charge more per unit of energy for small monthly consumption (baseload only) and less per unit of energy for large monthly consumption (baseload plus winter heating use).

Prices actually declined up to $.39/MMBtu in four of the nine census divisions, while prices increased in the remaining divisions only in the range of $.15 - $.42/MMBtu on a nominal basis compared to last year.

The prices for electricity represent total electric use or the rate prevailing for 600 Kwh per month and above.

The following conversion factors were used to convert reported data to Btu.

Conversion Factors

Natural Gas	1,000 cubic feet/million Btu
Fuel Oil #2	7.194 gallons/million Btu
Electricity	293.083 kwh/million Btu
Propane	10.917 gallons/million Btu

Information marked "NA" represents data not available or fuel not distributed.

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31				PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL(S)
		NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE		
NEW ENGLAND							
CONNECTICUT							
SOUTHERN CONNECTICUT GAS CO.	BRIDGEPORT	8.95	7.19	33.12	13.65	#2 OIL	879.00
CONNECTICUT NATURAL GAS	HARTFORD	7.31	7.83	23.36	11.46	#2 OIL	1,042.00
NORTHEAST UTILITIES	WATERBURY	9.00	8.05	23.45	8.73	#2 OIL	996.00
NEW ENGLAND							
MASSACHUSETTS							
BOSTON GAS CO.	BOSTON	7.11	8.23	28.43	11.35	#2 OIL	766.35
COLONIAL GAS CO.	CAPE COD	8.23	8.99	24.91	12.01	ELECTRIC	535.00
FALL RIVER GAS CO.	FALL RIVER	5.93	7.88	23.45	NA	#2 OIL	450.00
BAY STATE GAS CO.	BROCKTON	6.39	7.91	23.45	10.86	#2 OIL	566.00
ESSEX COUNTY GAS CO.	HAVERHILL	7.65	6.47	21.98	11.24	#2 OIL	880.00
LOWELL GAS CO.	LOWELL	8.25	7.55	26.38	11.35	#2 OIL	750.00
NEW ENGLAND							
MAINE							
NORTHERN UTILITIES, INC.	LEWISTON	7.70	7.58	22.34	12.68	#2 OIL	525.00
NEW ENGLAND							
NEW HAMPSHIRE							
CONCORD NATURAL GAS CORP.	CONCORD	6.11	7.62	22.27	10.91	#2 OIL	800.00
GAS SERVICE, INC.	NASHUA	7.00	6.73	32.24	11.14	#2 OIL	740.00
MANCHESTER GAS CO.	MANCHESTER	7.00	6.73	32.24	11.14	#2 OIL	750.00
NORTHERN UTILITIES, INC.	PORTSMOUTH	6.80	7.58	27.23	12.88	#2 OIL	515.00
NEW ENGLAND							
RHODE ISLAND							
VALLEY GAS CO.	PAWTUCKET	6.86	7.91	26.67	10.48	#2 OIL	835.00
NEW ENGLAND							
VERMONT							

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BTU BILL(S)
VERMONT GAS SYSTEMS	BURLINGTON	5.79	7.55	19.05	11.79	ELECTRIC	620.00
NEW ENGLAND DIVISION		7.42	7.61	25.66	11.46		774.17
MIDDLE ATLANTIC NEW JERSEY							
SOUTH JERSEY GAS CO.	ATLANTIC CITY	6.62	7.77	32.96	15.28	ELECTRIC	480.00
NEW JERSEY NATURAL GAS CO.	ASBURY PARK	6.60	7.83	27.84	10.81	#2 OIL	641.66
ELIZABETHTOWN GAS CO.	ELIZABETH	6.77	5.65	25.77	5.40	#2 OIL	NA
PUBLIC SERVICE ELEC. & GAS	NEWARK	6.62	7.91	19.72	NA	#2 OIL	725.00
MIDDLE ATLANTIC NEW YORK							
BROOKLYN UNION GAS CO.	NEW YORK	8.83	8.63	25.50	NA	#2 OIL	1,095.00
CENTRAL HUDSON GAS & ELEC.	POUGHKEEPSIE	6.45	8.13	30.22	6.15	#2 OIL	513.00
NIAGARA MOHAWK POWER CORP.	SYRACUSE	6.09	7.77	18.93	11.03	ELECTRIC	680.00
CONSOLIDATED EDISON CO.	NEW YORK	7.06	8.63	48.62	NA	#2 OIL	862.00
NATIONAL FUEL GAS DISTR.	BUFFALO	6.37	7.77	21.10	11.14	#2 OIL	631.32
LONG ISLAND LIGHTING CO.	LONG BEACH	6.78	8.42	27.58	12.68	#2 OIL	796.00
NEW YORK STATE ELEC. & GAS	ITHACA	5.58	7.91	17.58	11.79	#2 OIL	629.00
ROCHESTER GAS & ELECTRIC	ROCHESTER	6.12	8.06	19.17	10.04	ELECTRIC	617.00
ORANGE & ROCKLAND UTILITIES	CLARKSTOWN	6.27	7.54	37.43	5.71	#2 OIL	677.12
ST. LAWRENCE GAS CO.	MASSENA	5.20	7.12	13.77	11.46	ELECTRIC	605.00
MIDDLE ATLANTIC PENNSYLVANIA							
EQUITABLE GAS CO.	PITTSBURGH	6.25	7.12	19.64	11.46	ELECTRIC	689.00
NATIONAL FUEL GAS DISTR.	ERIE	5.35	7.60	22.86	10.81	#2 OIL	579.67
NORTH PENN GAS CO.	RURAL	5.65	7.55	17.58	11.20	#2 OIL	452.10
THE PEOPLES NATURAL GAS CO.	PITTSBURGH	5.83	7.12	17.58	11.46	ELECTRIC	563.00
PHILADELPHIA ELECTRIC CO.	PHILADELPHIA	7.33	8.06	18.82	10.04	ELECTRIC	806.00
PHILADELPHIA GAS WORKS	PHILADELPHIA	7.58	7.99	18.11	15.61		780.00

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31				PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BILL($)
		NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE		
PENNSYLVANIA GAS & WATER CO.	WILKES-BARRE	6.76	6.83	21.40	13.10	ELECTRIC	918.00
UGI CORPORATION	READING	7.34	7.27	17.20	10.92	#2 OIL	639.00
MIDDLE ATLANTIC DIVISION		6.70	7.67	23.61	10.86		719.04
EAST NORTH CENTRAL							
ILLINOIS							
CENTRAL ILLINOIS LIGHT CO.	PEORIA	5.31	7.77	13.41	7.31	ELECTRIC	670.00
CENTRAL IL. PUBLIC SERVICE	QUINCY	5.41	6.73	10.20	8.07	ELECTRIC	551.00
ILLINOIS POWER CO.	DECATUR	5.33	6.69	11.14	6.54	ELECTRIC	411.09
IOWA-ILLINOIS GAS & ELECTRIC	ROCK ISLAND	4.73	7.27	17.28	7.86	PROPANE	523.00
NORTH SHORE GAS CO.	WAUKEGAN	5.78	8.28	15.02	NA	ELECTRIC	832.00
THE PEOPLES GAS LIGHT & COKE	CHICAGO	5.89	8.42	14.92	NA	ELECTRIC	857.00
NORTHERN ILLINOIS GAS CO.	ROCKFORD	4.30	7.58	13.51	8.71	ELECTRIC	578.00
EAST NORTH CENTRAL							
INDIANA							
CITIZENS GAS & COKE	INDIANAPOLIS	5.32	7.27	14.65	7.86	ELECTRIC	516.00
HOOSIER GAS CORP.	VINCENNES	4.53	6.69	15.53	8.41	ELECTRIC	531.88
INDIANA GAS CO.	CLARKSVILLE	6.40	7.37	15.18	8.83	ELECTRIC	594.50
KOKOMO GAS & FUEL CO.	KOKOMO	6.06	7.33	13.77	8.80	ELECTRIC	829.00
LAWRENCEBURG GAS CO.	LAWRENCEBURG	5.96	7.41	NA	9.39	ELECTRIC	510.00
NORTHERN IN. PUBLIC SERVICE	FORT WAYNE	4.55	7.21	18.43	8.90	ELECTRIC	475.26
OHIO VALLEY GAS CORP.	WINCHESTER	5.44	6.83	20.52	9.83	ELECTRIC	686.00
SOUTHERN IN. GAS & ELECTRIC	EVANSVILLE	4.82	6.47	13.39	8.62	#2 OIL	533.00
EAST NORTH CENTRAL							
MICHIGAN							
BATTLE CREEK GAS CO.	BATTLE CREEK	5.60	7.80	19.05	9.28	#2 OIL	678.00
CONSUMERS POWER CO.	FLINT	5.71	7.80	17.52	9.72	#2 OIL	691.04
SOUTHEASTERN MICHIGAN GAS	PORT HURON	5.58	7.04	19.52	9.40	#2 OIL	519.00
LAKE SUPERIOR DIST. POWER	IRONWOOD	5.84	7.19	18.63	9.06	ELECTRIC	814.00

DIVISION STATE COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	 FUEL OIL NO. 2	 ELECTRIC	 PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BIL(#)
MICHIGAN CONSOLIDATED GAS	DETROIT	5.64	7.52	29.13	10.19	#2 OIL	600.00
MICHIGAN POWER CO.	HOLLAND	5.52	7.16	18.95	9.39	#2 OIL	500.14
MICHIGAN GAS UTILITIES CO.	MONROE	6.75	7.77	20.91	8.52	#2 OIL	467.00
WISCONSIN PUBLIC SERVICE	MENOMINEE	5.60	7.27	19.64	8.85	#2 OIL	534.70
EAST NORTH CENTRAL OHIO							
CINCINNATI GAS & ELECTRIC	CINCINNATI	5.71	7.41	14.68	9.39	ELECTRIC	546.00
DAYTON POWER & LIGHT CO.	DAYTON	6.04	7.91	19.93	10.92	#2 OIL	500.00
EAST OHIO GAS CO.	CLEVELAND	5.53	7.92	17.38	10.26	ELECTRIC	765.00
NATIONAL FUEL GAS DISTR.	ANDOVER	5.12	7.60	22.86	10.81	#2 OIL	568.65
OHIO GAS CO.	BRYAN	5.16	7.38	19.05	9.38	ELECTRIC	820.00
TOLEDO EDISON CO.	DEFIANCE	5.48	6.97	21.25	8.61	ELECTRIC	600.00
WEST OHIO GAS CO.	LIMA	6.06	6.78	20.22	9.98	ELECTRIC	678.13
EAST NORTH CENTRAL WISCONSIN							
LAKE SUPERIOR DIST. POWER	ASHLAND	5.88	7.19	17.85	9.06	ELECTRIC	761.00
MADISON GAS & ELECTRIC CO.	MADISON	6.29	7.34	18.99	9.55	#2 OIL	599.00
WISCONSIN GAS CO.	MILWAUKEE	6.35	7.77	19.18	8.94	#2 OIL	653.00
NORTHERN STATES POWER CO.	EAU CLAIRE	6.56	7.19	16.09	9.06	ELECTRIC	647.00
SUPERIOR WATER,LIGHT & POWER	SUPERIOR	6.90	7.99	19.49	9.28	#2 OIL	734.00
WISCONSIN FUEL & LIGHT CO.	WAUSAU	6.21	7.48	18.00	8.95	#2 OIL	555.68
WISCONSIN PUBLIC SERVICE	GREEN BAY	5.60	7.27	19.64	8.85	#2 OIL	534.70
WISCONSIN SOUTHERN GAS CO.	LAKE GENEVA	5.20	6.83	19.64	8.52	ELECTRIC	477.00
EAST NORTH CENTRAL DIVISION		5.40	7.37	17.47	9.03		633.98
WEST NORTH CENTRAL IOWA							
CEDAR FALLS UTILITIES	CEDAR FALLS	5.82	7.03	16.12	6.98	PROPANE	509.00
IOWA ELECTRIC LIGHT & POWER	MUSCATINE	6.20	6.98	13.72	6.65	#2 OIL	484.00

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31				PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BILL($)
		NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE		
IOWA-ILLINOIS GAS & ELECTRIC	DAVENPORT	4.86	7.27	16.94	8.52	PROPANE	446.39
IOWA GAS CO.	DES MOINES	5.00	7.19	15.24	7.10	ELECTRIC	514.17
IOWA PUBLIC SERVICE CO.	SIOUX CITY	5.33	6.76	16.98	5.79	PROPANE	603.82
WEST NORTH CENTRAL KANSAS							
ARKANSAS LOUISIANA GAS CO.	WICHITA	4.18	8.35	17.38	7.10	ELECTRIC	301.00
MIDWEST ENERGY, INC.	HAYS	3.41	NA	17.44	6.66	ELECTRIC	435.51
KPL GAS SERVICE	TOPEKA	3.82	5.04	20.52	7.64	ELECTRIC	525.04
KANSAS POWER & LIGHT CO.	SALINA	3.35	7.91	17.00	7.64	ELECTRIC	308.00
WEST NORTH CENTRAL MINNESOTA							
AUSTIN UTILITIES	AUSTIN	4.89	7.34	19.34	7.31	PROPANE	565.00
CITY OF DULUTH	DULUTH	5.71	7.55	17.00	10.37	#2 OIL	800.00
MONTANA-DAKOTA UTILITIES CO.	CROOKSTON	7.10	7.12	14.65	8.62	ELECTRIC	570.00
NORTHERN STATES POWER CO.	ST. PAUL	5.67	7.55	14.24	8.90	ELECTRIC	636.00
NORTH CENTRAL PUBLIC SERVICE	COON RAPIDS	5.46	7.91	19.05	8.79	ELECTRIC	700.00
MINNEGASCO, INC.	MINNEAPOLIS	5.71	7.55	14.65	8.19	ELECTRIC	555.00
WEST NORTH CENTRAL MISSOURI							
KPL GAS SERVICE	KANSAS CITY	3.95	5.04	20.52	7.64	ELECTRIC	NA
LACLEDE GAS CO.	ST. LOUIS	5.35	7.70	9.02	8.73	ELECTRIC	533.22
MISSOURI PUBLIC SERVICE CO.	SEDALIA	3.77	7.91	10.26	7.64	ELECTRIC	NA
CITY OF SPRINGFIELD	SPRINGFIELD	4.61	6.48	14.55	6.16	ELECTRIC	349.00
ASSOCIATED NATURAL GAS CO.	SIKESTON	5.40	6.76	10.61	7.63	PROPANE	548.00
WEST NORTH CENTRAL NEBRASKA							
KPL GAS SERVICE	FALLS CITY	3.86	5.04	20.52	7.64	ELECTRIC	508.93
HASTINGS UTILITIES	HASTINGS	4.46	NA	20.52	NA	NA	579.36
IOWA PUBLIC SERVICE CO.	SIOUX CITY	5.33	6.76	NA	5.79	PROPANE	566.26

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BILL($)
METROPOLITAN UTILITIES DIST.	OMAHA	4.72	6.98	9.91	7.21	ELECTRIC	424.00
NORTHWESTERN PUBLIC SERVICE	GRAND ISLAND	4.32	6.47	10.26	6.55	ELECTRIC	476.00
MINNEGASCO, INC.	LINCOLN	5.65	7.70	13.19	8.73	ELECTRIC	425.00
WEST NORTH CENTRAL							
NORTH DAKOTA							
MONTANA-DAKOTA UTILITIES CO.	BISMARCK	5.99	7.27	18.44	7.75	ELECTRIC	582.00
NORTHERN STATES POWER CO.	FARGO	5.59	7.40	13.83	8.68	ELECTRIC	NA
WEST NORTH CENTRAL							
SOUTH DAKOTA							
IOWA PUBLIC SERVICE CO.	YANKTON	5.40	6.76	15.53	5.79	PROPANE	587.99
MONTANA-DAKOTA UTILITIES CO.	RAPID CITY	5.73	6.75	12.98	8.07	ELECTRIC	441.00
NORTHWESTERN PUBLIC SERVICE	ABERDEEN	5.65	6.47	9.67	6.00	ELECTRIC	567.00
MINNEGASCO, INC.	SIOUX FALLS	5.75	7.77	14.65	8.73	ELECTRIC	487.00
WEST NORTH CENTRAL DIVISION		4.87	7.03	15.31	7.58		517.66
SOUTH ATLANTIC							
DISTRICT OF COLUMBIA							
WASHINGTON GAS LIGHT CO.	WASHINGTON	7.22	8.55	18.70	10.85	ELECTRIC	809.00
SOUTH ATLANTIC							
FLORIDA							
PEOPLES GAS SYSTEM, INC.	MIAMI	5.65	6.83	26.82	12.01	ELECTRIC	124.00
SOUTH ATLANTIC							
GEORGIA							

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BTU(S)
ATLANTA GAS LIGHT CO.	ATLANTA	5.59	6.83	16.71	9.83	ELECTRIC	400.35
SOUTH ATLANTIC MARYLAND							
BALTIMORE GAS & ELECTRIC CO.	BALTIMORE	6.54	7.98	17.91	5.46	ELECTRIC	599.00
WASHINGTON GAS LIGHT CO.	HYATTSVILLE	6.64	8.55	14.24	10.85	ELECTRIC	624.00
SOUTH ATLANTIC NORTH CAROLINA							
PIEDMONT NATURAL GAS CO.	CHARLOTTE	6.54	7.91	17.58	10.37	ELECTRIC	506.00
PUBLIC SERVICE OF N.CAROLINA	RALEIGH	5.88	8.20	20.52	10.70	ELECTRIC	479.52
CITY OF WILSON	WILSON	6.32	7.20	19.43	9.57	#2 OIL	518.40
SOUTH ATLANTIC SOUTH CAROLINA							
PIEDMONT NATURAL GAS CO.	GREENVILLE	6.62	7.91	17.58	10.37	ELECTRIC	509.00
COMMISSION OF PUBLIC WORKS	GREENWOOD	5.56	7.76	13.63	10.81	ELECTRIC	299.00
PEOPLES NATURAL GAS OF SC.	FLORENCE	7.79	7.40	19.93	10.48	ELECTRIC	320.00
SOUTH CAROLINA ELEC. & GAS	COLUMBIA	6.10	7.55	20.81	10.04	#2 OIL	499.80
SOUTH ATLANTIC VIRGINIA							
CITY OF CHARLOTTESVILLE	CHARLOTTESVILLE	6.35	8.19	19.64	10.53	ELECTRIC	600.00
CITY OF DANVILLE	DANVILLE	4.96	7.88	12.31	9.12	ELECTRIC	368.01
CITY OF RICHMOND	RICHMOND	7.32	8.70	18.17	10.37	ELECTRIC	393.00
ROANOKE GAS CO..	ROANOKE	6.25	7.41	17.58	8.88	ELECTRIC	565.80
VIRGINIA NATURAL GAS	NORFOLK	6.73	8.06	14.53	11.68	ELECTRIC	585.00
WASHINGTON GAS LIGHT CO.	ALEXANDRIA	6.54	8.55	15.27	10.85	ELECTRIC	531.81
SOUTH ATLANTIC WEST VIRGINIA							

DIVISION STATE COMPANY	PRINCIPAL CITY SERVED	ALL RATES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BTU BILL(S)
EQUITABLE GAS CO.	GRAFTON	6.15	NA	NA	NA	ELECTRIC	504.00
HOPE NATURAL GAS CO.	PARKERSBURG	5.59	7.19	17.46	10.39	ELECTRIC	442.31
SOUTH ATLANTIC DIVISION		6.14	7.42	17.83	10.16		484.86
EAST SOUTH CENTRAL ALABAMA							
ALABAMA GAS CORP.	BIRMINGHAM	5.71	7.48	16.07	8.52	ELECTRIC	450.75
DECATUR UTILITIES	DECATUR	6.64	6.40	12.90	8.19	ELECTRIC	295.00
CITY OF FLORENCE	FLORENCE	5.69	6.83	13.19	9.72	ELECTRIC	NA
SOUTHEAST ALABAMA GAS DIST.	ANDALUSIA	5.40	5.76	20.22	9.17	ELECTRIC	354.00
EAST SOUTH CENTRAL KENTUCKY							
EQUITABLE GAS CO.	RURAL	3.94	NA	NA	NA	ELECTRIC	NA
LOUISVILLE GAS & ELECTRIC	LOUISVILLE	6.51	7.24	13.97	9.61	ELECTRIC	365.32
UNION LIGHT, HEAT & POWER	COVINGTON	6.68	7.41	13.19	9.39	ELECTRIC	624.00
WESTERN KENTUCKY GAS CO.	OWENSBURG	6.35	NA	18.95	9.28	ELECTRIC	302.74
EAST SOUTH CENTRAL MISSISSIPPI							
ENTEX, INC.	GULFPORT	6.01	NA	21.98	9.28	ELECTRIC	220.73
MISSISSIPPI VALLEY GAS CO.	JACKSON	5.11	5.68	12.31	9.50	ELECTRIC	280.84
EAST SOUTH CENTRAL TENNESSEE							
MEMPHIS LIGHT, GAS & WATER	MEMPHIS	6.85	6.37	13.19	9.17	PROPANE	865.00
NASHVILLE GAS CO.	NASHVILLE	5.37	7.77	13.48	9.61	ELECTRIC	835.00
MIDDLE TENNESSEE NATURAL GAS	SMITHVILLE	5.86	6.11	13.95	10.03	ELECTRIC	825.00
JACKSON UTILITY DIVISION	JACKSON	6.62	10.79	13.41	10.04	ELECTRIC	338.27

DIVISION / STATE	COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BTU BILL($)
EAST SOUTH CENTRAL DIVISION			5.20	7.08	14.86	9.35		388.06
WEST SOUTH CENTRAL								
ARKANSAS								
	ARKANSAS LOUISIANA GAS CO.	LITTLE ROCK	4.88	5.90	19.80	9.39	ELECTRIC	266.00
	ARKANSAS WESTERN GAS CO.	FAYETTEVILLE	3.92	NA	22.57	8.73	ELECTRIC	265.87
	ARKANSAS OKLAHOMA GAS CORP.	FORT SMITH	3.52	NA	NA	NA	ELECTRIC	269.07
	ASSOCIATED NATURAL GAS CO.	BLYTHEVILLE	4.85	6.73	10.61	7.71	PROPANE	462.00
WEST SOUTH CENTRAL								
LOUISIANA								
	ARKANSAS LOUISIANA GAS CO.	SHREVEPORT	5.08	5.90	17.76	8.84	ELECTRIC	277.00
	TRANS LOUISIANA GAS CO.	LAFAYETTE	6.31	NA	18.35	10.37	ELECTRIC	244.00
	NEW ORLEANS PUBLIC SERVICE	NEW ORLEANS	6.51	NA	17.56	NA	ELECTRIC	NA
	ENTEX, INC.	LAKE CHARLES	6.57	NA	23.05	9.29	ELECTRIC	208.79
WEST SOUTH CENTRAL								
OKLAHOMA								
	ARKANSAS LOUISIANA GAS CO.	LAWTON	5.07	7.99	14.83	7.42	ELECTRIC	290.00
	ARKANSAS OKLAHOMA GAS CORP.	POTEAU	3.90	NA	NA	NA	ELECTRIC	252.33
	KPL GAS SERVICE	BARTLESVILLE	3.75	5.04	20.52	7.64	ELECTRIC	NA
	LONE STAR GAS CO.	DURANT	4.56	NA	17.58	9.21	ELECTRIC	270.99
	OKLAHOMA NATURAL GAS CO.	OKLAHOMA CITY	3.90	NA	12.57	7.31	ELECTRIC	288.50
WEST SOUTH CENTRAL								
TEXAS								
	ARKANSAS LOUISIANA GAS CO.	TEXARKANA	5.19	6.11	14.95	9.39	ELECTRIC	255.00
	LONE STAR GAS CO.	DALLAS	5.34	NA	20.31	9.21	ELECTRIC	318.09
	CITY PUBLIC SERVICE	SAN ANTONIO	5.54	NA	18.82	8.19	ELECTRIC	171.66
	ENTEX, INC.	HOUSTON	6.62	NA	24.77	9.28	ELECTRIC	209.60
	ENERGAS CO.	LUBBOCK	4.90	NA	11.61	7.86	ELECTRIC	277.10

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL($)
WEST SOUTH CENTRAL DIVISION		5.35	6.29	17.88	8.66		263.41
MOUNTAIN							
ARIZONA							
ARIZONA PUBLIC SERVICE CO.	PHOENIX	7.70	7.09	17.94	11.68	ELECTRIC	NA
CITIZENS UTILITIES CO.	NOGALES	7.62	NA	28.52	10.17	PROPANE	176.00
SOUTHWEST GAS CORP.	TUCSON	7.70	6.26	12.02	10.15	ELECTRIC	156.31
MOUNTAIN							
COLORADO							
CITY OF COLORADO	COLORADO SPRINGS	3.82	NA	11.72	NA	ELECTRIC	265.00
PUBLIC SERVICE OF COLORADO	DENVER	4.45	5.58	22.92	8.84	ELECTRIC	416.26
ROCKY MOUNTAIN NATURAL GAS	MONTROSE	4.68	7.91	21.24	9.28	ELECTRIC	482.00
MOUNTAIN							
IDAHO							
WASHINGTON WATER POWER CO.	LEWISTON	5.44	8.63	9.47	8.73	#2 OIL	393.00
INTERMOUNTAIN GAS CO.	BOISE	6.04	6.90	12.14	9.71	ELECTRIC	450.00
MOUNTAIN							
MONTANA							
GREAT FALLS GAS CO.	GREAT FALLS	4.34	6.62	12.43	8.19	ELECTRIC	NA
MONTANA-DAKOTA UTILITIES CO.	BILLINGS	5.22	6.33	11.69	8.19	ELECTRIC	442.00
MONTANA POWER CO.	MISSOULA	4.14	6.47	13.24	8.19	ELECTRIC	520.00
MOUNTAIN							
NEW MEXICO							
GAS CO. OF NEW MEXICO	ALBUQUERQUE	5.00	NA	26.38	9.33	ELECTRIC	351.00

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL($)
MOUNTAIN							
NEVADA							
SIERRA PACIFIC POWER CO.	RENO	7.52	7.70	24.12	12.88	#2 OIL	499.54
SOUTHWEST GAS CORP.	LAS	6.60	6.29	15.83	11.59	ELECTRIC	221.10
MOUNTAIN							
UTAH							
MOUNTAIN FUEL SUPPLY CO.	SALT LAKE CITY	5.29	6.17	19.44	8.47	ELECTRIC	421.25
MOUNTAIN							
WYOMING							
MONTANA-DAKOTA UTILITIES CO.	SHERIDAN	5.63	7.40	12.37	7.10	ELECTRIC	515.00
MOUNTAIN FUEL SUPPLY CO.	ROCK SPRINGS	4.67	7.04	13.28	8.46	ELECTRIC	396.39
WYOMING GAS CO.	WORLAND	5.35	7.54	12.31	7.10	ELECTRIC	642.06
NORTHERN GAS DIVISION	CASPER	4.92	NA	13.28	7.31	ELECTRIC	485.00
MOUNTAIN DIVISION		5.53	6.92	16.34	9.19		381.05
PACIFIC							
CALIFORNIA							
PACIFIC GAS & ELECTRIC CO.	SAN FRANCISCO	4.74	NA	18.52	11.57	PROPANE	240.00
SAN DIEGO GAS & ELECTRIC	SAN DIEGO	4.77	NA	28.28	11.46	ELECTRIC	138.00
SOUTHERN CALIFORNIA GAS CO.	LOS ANGELES	5.91	NA	22.44	5.90	ELECTRIC	208.00
PACIFIC							
OREGON							
NORTHWEST NATURAL GAS CO.	PORTLAND	6.84	7.29	14.87	10.92	ELECTRIC	387.00

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31				PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL($)
		NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE		
PACIFIC							
WASHINGTON							
NORTHWEST NATURAL GAS CO.	VANCOUVER	6.30	7.29	10.84	10.92	ELECTRIC	364.00
WASHINGTON WATER POWER CO.	SPOKANE	5.26	8.63	8.85	8.73	#2 OIL	475.00
WASHINGTON NATURAL GAS CO.	SEATTLE	6.71	8.13	13.89	12.55	ELECTRIC	481.79
PACIFIC DIVISION		5.83	7.84	16.81	10.29		231.60